E S S A Y

ON

NAVAL TACTICS, SYSTEMATICAL AND HISTORICAL.

WITH

EXPLANATORY PLATES.

IN FOUR PARTS.

BY JOHN CLERK, Esq. of Eldin

AND OF THE ROYAL SOCIETY OF SCOTISH ANTIQUARIES.

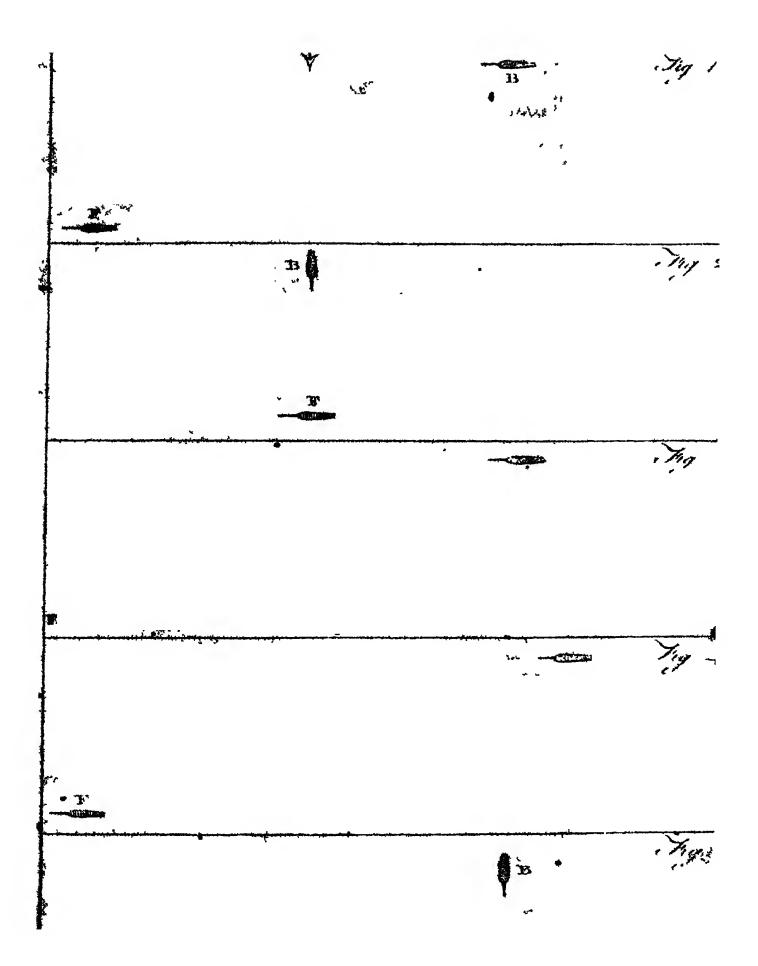
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PREFACE.

HOUGH a superior degree of knowledge, in naval affairs be evidently of the utmost consequence to the inhabitants of this island, yet the subject of Naval Tactics had long remained among us in a very rude and uncultivated state. Of this I was convinced at an early period of life, and I had long applied to this study before I ventured to communicate my thoughts upon it to the Public.

Since the appearance of the following fystem in print, about twenty-two years ago, it has been a source of the greatest satisfaction to me to observe a total change in the mode of conducting engagements with great sects, on the part of our gallant British Admirals. The spirit, perseverance, and superior skill of our seamen,

^{*} The first impression of Part, First confished of a few copies, not for falc, but to be goen away.

PREMACE.

thips, but which, from the dexterous manecuves of the energy, could not formerly be brought into proper effect, on account of a total neglect of the fludy of Naval Tactics, have at last been exhibited also in the case of great battles with numerous sleets, in a manner which has led to naval victories that must ever appear with the greatest lustre in the British annals. The letters of approbation which I have received, not only from men of learning, but from paval officers of distinguished ability and of the highest rank*, and the numerous compliments that have of late been paid to me, might exempt me from the imputation of vanity, if I should now conclude, that my work, however imperfect, has essentially contributed to the service of my country.

As I never was at fea mytelf, it has been afked, how I should have been able to acquire any knowledge in. Naval Tactics, or should have prefumed to suggest my opinions and ideas upon that subject. The following detail, which I trust I shall now be excused for entering upon, will, it is hoped, obviate every prejudice of this kind.

I had acquired a strong passion for nautical information, when almost an infant. At ten years old, before I had seen a ship,

I was, in particular, much flattered by the decided approbation of my Effay, by Lord Duncan and other naval effects at Portfmouth, conveyed by his Lordflip, then Captain Duncan, in a letter to my relation, Sir John Cienk, follong ago as October 4 1785; in which is mentioned affective attention paid to my work by his Royal Highners the Duke of Clarence.

his

thip, or even the fea, but at a distance of four or five miles, I formed an acquaintance at school with some boys who had come from a distant sea-post, and who instructed me respecting the different parts of a ship from a model which they had procured. After this apprenticeship, I had frequent opportunities of feeing and examining thips at the neighbouring port of Leith, which increased my passion for the subject; and I was soon in possession of a number of other models, some of them even of my own constructing, which I often failed on a piece of water of fome fize in my father's pleafure-grounds, where there was alfo a boat with fails, which furnished me with much employment. Besides this, I had studied Robinson Crusoe, and had read a number of voyages. A detre of going to sea could not but be the confequence of all this. Checked it was, however, at all times by my family, who already had fuffered heavy losses in both fea and land fervice.

During the course of two long wars, the sirst of which commenced about this time, I had the advantage of the conversation of many of my own near relations, who had been bred to the sea-service. Besides this, I had at all times courted connexion with other, professional seamen and shipbuilders, of all ranks and capacities, wherever they were to be met with, as at London, and in almost all the other sea-ports round the island. At the same time, I was unviearied in my attention to the many valuable experiments of the ingenious and liberal-minded Mi PATRICK MILLER of Desirition; to whom, whether in shipbuilding or in consecutive artislery, both marketry and great guns,

his country is more indebted, than has hitherto been properly ac-

Meanwhile, I took every opportunity which offered of making thost expeditions, or trips on the water, with the fole intention of observing the effect of the fails, of the waves, and of the rudder. At some times, for hours, it was my custom to contemplate the effect of the wind upon ships of all kinds, small and great, on their departure from a mole, or pier-head, such as that of Leith, one of the best places for the purpose which I have known. Of this fort of amusement I never tired; but continued the practice, with the fore-mentioned models rigged in different ways, of making experiments in failing, in every way that could be thought of, and on all occisions correcting and fixing my ideas, by committing them to paper, both by drawing and writing.

By these means, I had begun to have some conception of that most difficult problem, hitherto not sufficiently elucidated,—the way of a ship to windward: But having it in view to bring forward something on that subject at some future period, and for which already I have collected a number of materials, let this rest for the present, and et it be supposed that my attention to Naval Tactics, more particularly, commenced about the year 1770, when a most ingerious gentleman, the late Commissioner Eugar, came to reside in my neighbourhood. He had been in the army, and, with his company of foot, detached from Gibraltar, had been put on hourd Admiral Bync's own thip, to supply the want of marines; and was present in the action

May 20th 1756. Mr Eugar afterwards, as the friend of Admital Boscawen, had the great good fortune to accompany that accomplished commander on the more fortunate occasion of Lagos Bay, In the course of much conversation and animadversion, which naturally might be supposed to arise from these two subjects, we happily had for our assistance a copy of the trial of Admiral Bung, in which Mr Engar himself had been examined as a witness. I have been informed, that among other remarkable, circumstances which often attend trials of this kind, the use of every species of plan, drawing, or delincation, was most unaccountably denign the unfortunate Admiral.

The attack in this pattle was from the windward: and as it appeared to me extremely ill conducted, the subject occupied my mind for years. In this discussion, I had recourse not only to every species of demonstration, by plans and drawings, but also to the use of a number of small models of ships, which, when disposed in proper arrangement, gave most correct representations of hospile sleets, extended each in line of battle; and being eatily moved and put into any relative position required, and thus permanently seen and well considered, every possible idea of mayal system could be discussed without confusion, and without the possibility of any dispute.

The war in 1775, meanwhile, commenced; during the continuation of which, my studies advanced: so that by the time its was furmised that the two sleets, British and French, might be a have have put to sea, an anxiety inexpressible laid hold of my mind; and the desire of being present at the meeting of the hostile sleets was so great, that, could my private concerns in any way have admitted of it, or rather had I not been at such a distance from Postsmouth, from whence the armament on the part of Britain was sitted out, I certainly should have been on board some one ship of Lord Kepper's fleet.

The rencounter which followed on the 27th of July 1778, became the subject of two other long trials; the first that of Lord Kepper the Admiral: the second that of Sir Hugh Palliser, the fecond in command, which, far from giving fatisfaction, proved only fresh cause of disquiet among the officers of the Navy. fubject was new-an attack from the leeward; it had never occurred before, at least in these later times; and therefore it was the less wonderful that it might be subject to animadversions, or that the most able officers might differ in opinion with respect to the manner of conduct. But it is remarkable, that not only in the course of these two long trials, but also in the course of the two trials formerly mentioned, of Admiral MATTHEWS in 1744, or that of Admiral Byng in 1756, not one fingle hint has escaped, . from any one concerned, that it was possible any thing defective could be attributed to the fyflem of the attack itself, or that any. kind of improvement should be attempted .*.

The

^{*} Alluding to what has fince been put in practice—the cutting the enemy's line afunder—the directing the greater part of the force of a fleet against a few styps, either in the van or the rear, or even making place of the slower-failing, or expelled ships of the enemy.

The investigation, however, of many things in this engagement, which to me seemed to be palpable blunders, and most important, roused a desire could not be resisted, and hurried me on to put in writing a number of strictures, accompanied with drawings and plans, containing sketches of what might have been attempted in this new kind of rencounter of sleets upon contrary tacks, more particularly applicable to this attack, as it was from the leeward, which, after communicating to friends, naval officers, and others in my neighbourhood, copies were sent to London.

The next example of a sea-engagement which followed, was that of Admiral Byron off the island of Grenada, July 6th 1779. The attack was from the windward, and similar both to that of MATTHEWS and that of Admiral Byro. These attacks, together with this of Lord Kepper, made four cases, in which it appeared to me, that neither the difficulty of bringing on an engagement, nor that of pursuing the enemy, arose from any abatement in the spirit of the seamen, nor of any defect in the shipping, on the one side, nor even from any superiority of sailing on the other; but must be attributed alone to the unskilful manner in which the several attacks were conducted.

In January 1780, when I was in London, being fully impressed with the importance of the naval ideas which long had been working in my imagination, and in consequence of the strictures on Lord Kepper's engagement sent the year before, some appointments, for the surpose of farther communication on this subject;

Ribject, were made by my friends. Among the first of these, was an appointment with Mr RICHARD ATKINSON, the particular friend of Sir George Rophey, who as then in London, and was immediately to fet out to take the command of the fleet in the West Indies. At this meeting, the whole of my acquisitions on the subject of Naval Tactics, for many years back, was discussed. I communicated to Mr ATKINSON the theories of attack from both the windward and the leeward; the first as contained in the first part of this Effay; the last as contained in the second part, now published a second time. I particularly explained any doctrine of cutting the enemy's line, &c. as let forth, in both first and second I also produced the paper of strictures on Lord Krepri's rencounter of the 27th of July, which contained all my general ideas on the subject of Naval Tactics. All this Mr ATKINSON undertook to communicate to Sir George Ropney, which he could have no difficulty in doing, as I left in his custody sketches made according to my usual method of demonstration, together with the necessary explanations.

P. 104. No. 115.

From the best authority. I have been informed that Lord RODNEY himself at all times acknowledged the communication; and having, from the sirst, approved of my system, declared, even before he lest London, that he would strictly adhere to it in fighting the enemy.

Soon after this, Admiral RODNEY failed with a strong sleet for the West Indies. Off Cape Finistene, he fell in with and cape tured a number of Spanish transports; and off Gape St Vincent, meeting with a Spanish squadron, he took several ships, and made, prisoner Don LANGUARA the commander. Proceeding to the

West

West Indies, on the 16th April 1-86, he came in fight of the French spect to the leeward of the Pearl Rock, west end of the island of Martinion. On the 17th, the French were still to leeward; and Admiral Rodney broughteen an action, by an attack from the windward. In his official despatches describing the battle, there is the following remarkable passage: "At forty-sive minutes after six in the morning, I gave notice, by public signal, that my intention was to attack the enemy's rear with my whole force."

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This was a language altogether new, either from Admiral RODNEY, or any of his predecessors; and as it was the first instance in which a British Admiral had ventured to deviate from the old practice, I could not help immediately ascribing it to the communications I had made to Mr ATKINSON, as mentioned before. Elated as I was by the above passage, I was disappointed by another in the same letter. At fifty minutes after eleven A. M., I made the signal for every ship to bear down, and steer for her

opposite in the enemy's line, agreeable to the 21st Article of the

' Additional Fighting Instructions.'

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Afterwards on the 15th May, and again on the 19th, Admiral Rodney came to actions with Count de Grasse; but I was extremely mortified, that although, on both occasions, he met the enemy on contrary tacks, and from the leeward, he shewed no intention whatever of attempting to cut asunder the enemy's line, or even of separating, or cutting off a single ship from the rest of the line, although this could have been accomplished with the most perfect eases

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P. 204. No. 225.

In four other engagements which followed, 1. That of Admiral Arbutunor, on the 16th March 1781, off the mouth of the Chefspeak; 2. That of Admiral Hood on the 29th April, off Port Rôyal, Martinico; 3. That of Admiral Parker, on the 5th August, on the Dogger Bank; 4. That of Admiral Greaves, on the 5th September, off the mouth of the Chefspeak, the former practice was still continued; and accordingly, our fleets did not take a tingle ship from the enemy, and completely failed to accomplish the purpose of their destination. And though I must take notice, that on the 16th of March 1781, Admiral Arbutunor had much therit, in disappointing the intentions of the French upon the Chespeak, that officer knew nothing beyond the old erroneous testern of Tactics; and, very soon after the French entirely succeeded in their purposes in that quarter, to the great mortification of the British.

Having convinced myself of the effects that would follow a change of system, every fresh despatch from our sleets gave me new pain. The fatal errors, to which our want of success was to be attributed, still prevailed.

In the mean time, so often as despatches with descriptions of these battles were brought home, it was my practice to make animadversions, and criticise them, by fighting them over and over again, by means of the feresaid small models of ships, which I officient on which to extend and manocuve the opponent sleets at pleasure; and where every naval question, both with respect to situation and movement, even of every individual ship, as well

as the fleets themselves, could be animadverted on ;—in this way not form a judgment with respect to the subject of Tactics as well as myself.

Often, on these occasions, I had been pressed to publish my ideas, and had certainly done so long before, had it not been for two objections, both of which were of great weight with me.

Not being a professional man, and having even to learn many of the sea terms, I thought such a work from me would come very ill recommended 2-2. Having always employed my mind in mechanical studies, and in drawing only. I found myself extremely desicient, too, in the art of writing. I had therefore withed to find some professional seaman, who, approving of my ideas, would either communicate them to the public, or fall upon means of getting them attended to in the Navy.

At last, however, I found myself irresistibly impelled, by the melancholy accounts of the transactions which followed the 5th September, 1781; when Admiral Greaves, instead of entering the Chesapeak, and relieving Lord Cornwallie, which he could have done with persect ease, unadvisedly followed Count de Grasse to sea, and, after making an attack not less seeble and underlieve, there are which had preceded in found himself obliged to retire leaving Lord Cornwallies and his fine army to their sate; which was sollowed with consequences not less important, but far more deadful, than those that happened on the loss of the island

of Minorca, when abandoned by the unfortunate Admiral Byng in 1756.

P. 103, 105, 176.

P. 23. & 24.

r. 27.

P. 44. 110. &c.

In profecution of my tactical ideas at the time, put in motion by the firschures upon Lord KEPPEL's engagement, on the 27th of July 1778, now twenty-fix years ago, I had made confiderable progress in forming diagrams for illustrating the attack from the leeward, as appearing to me to be both new, and a manctuvre of greater ingenuity than the attack from the windward; when it occurred that, in compoling an Essay on Naval Tactics in general, it would be necessary to begin by faying fomething, 1. On the method of attack in the case of single ships; 2. On the mode of bringing a number of thips, or that of great fleets, to action: and I had, by way of illustration, made a collection of engagements which had formerly taken place, such as that of Admiral Matthews in 1744, that of Admiral Byng in 1756, and of Lord Keppel's in 1778, &cc.; to which were added, plans, with observations, founded upon despatches from the several Admirals. hold of an opportunity to read this Essay to a number of gentlemen affembled on purpole, it was for much approved of, that I was encouraged to finith it immediately, that, being published, it raight be of some use in the very critical situation we were brought into by this last misfortune and disgrace of our fleets in the mouth of the Chesapeak.

P. 168.

The attack from the leeward, it is true, was the first begun to be wrote. But as the materials of the attack from the windward were

were in greater forwardness, it was determined that this part of the subject, the attack from the windward, should be first executed; and accordingly, after getting it finished with as great speed as possible, it was published by the 1st of January 1782. A tew copies, only 50 in number, were printed, and handed about among friends: some copies I took the liberty to present to professional men. Very soon, however, I found that my system, so far as at then went, had excited a good deal of attention; and I was much gratisted by the many flattering setters of approbation which I received, not only from men of setters, but from naval officers of distinguished merit, and of the highest rank. Thus encouraged, I was advised to send copies to his Majesty's Ministers at the time, which was in Spring 1782, and my opinions, if just, no doubt deserved the immediate attention of Government.

Our affairs at lea foon after took a different turn; and I have fince had the great fatisfaction to fee, by the adoption of my fyftein, a decided and permanent fuperfority given to our fleets. I thall tay nothing, in this place, of the brilliant enterprise of Lord Hood for the relief of St Christophers, the account of which arrived about this time. The public joy on this glorious occasion had not fublished, when intelligence came of the memorable and glorious victory gained by Lord Romney, upon the 12th April 1782; a victory far more decisive and important than any which had been gained by our fleets during the last century. The general exultation was excessive; and I plattered myself I could diffinally perceive, even from the first accounts of the engage-

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ment, that the victory was owing to the adoption of my fystem; and especially to the managure of cutting the enemy's line in attacking from the leeward.

Sir Grorge Rodney himself, when he arrived in Britain, made no scruple to acknowledge, that I had fuggefied the mancurres by which he had gained the victory of the 12th of April 1789. I may here also be permitted to observe, that although Sa Groker should be supposed to have had the merit of adopting the manœuvie by which he gained the victory of the 10th April 1782, without any previous fuggestion or knowledge of my ideas upon the subject, still it is impossible to deny the efficiely of the method; and the system or which it proceeded might have remained unknown and unexplained: And perhaps it would not have been followed in other inflances, had not my Fsfay attracted the notice of the Navy; for the manœuvre was fo new and uncommon, and fo little agreeable to the former practice, that its adoption by Six George Rodney, as well as its confequences in that instance, must naturally have been ascribed to accident or good fortune, more especially as Sir Grorge find not, on former occations, departed from the old rules; and, in his despatches giving an account of this victory, made no allufion to the manoguvre as a new one, from which he had, antecedently expected such effects; for which reason, though I will not prefume to estimate the merit, or put a value on the invention, as of figual use to my country, I will not disguise the satisfaction, and even the confolation I have, in thinkings (in which I have

been .

been joined by many) that I have been the means of introducing. a fifteen of Tactics, which has given to the British I lests that evident superiority over their enemies, to which the gallantry and skill of the officers and men, and the construction and force of the ships, always entitled them.

ELDIN, May 19. 1804

To the BOOKBINDER.

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" The Plates to be placed facing the respective pages of the Work marked upon the top of each Plate; and so solded, that they may turn out to the right hand, and the Engravings be all beyond the margin of the letter-facts.

NAVAL TACTICS.

PART I

INTRÖDUCTION.

during the two last wars, as well as the present, it is remarkable, that, when single ships have encountered one another, or when two, or even three, have been engaged of a side, British seamen, if not victorious on every occasion, have never failed to exhibit instances of skilful seamanship, intrepidity, and perseverance; yet, when ten, twomer, or thirty great ships have been assembled, and formed in live of battle, it is equally remarkable,

By the prefet war is understood the American wary this Tract being written and Decober 1781. Immediately after the furrender of Lord Cornwailis's army, the conjequence of Admiral Greakes's unflueressful renconstruct with the French steet off the mouth of the Chesapenking A sew copies only were printed, and at that time distributed among Thenday.

ible, that, in no one instance, has ever a proper exertion been made, any thing memorable achieved, or even a ship lost or won on either side *.

Whoever studies the history of the times, will be convinced of the truth of both these assertions. But many, without properly attending to the first, acknowledge, and endeavour to account for, the last, by infimiating, that as our seamen, whatever they were in some times, are now, in no respect, preserable to those of our rivals, it would be absurd to expect from them a greater degree of exertion; and that the ships of our enemies, being better constructed, have had it always in their power to avoid an engagement, by outsailing us. As these opinions, unhappily, have already had too much influence, even among seamen, it will be partly the business of the following Treatise to show, that they are ill-sounded; and that it is neither to any abatement of spirit in our men, nor even to any fault in the construction of our shipping, that the want of success in the late great sea-battles ought to be attributed.

From our infular fituation, we are led to avail ourselves of a 'naval force, in some such manner, as that in which alk ani als are directed to make use of the weapons or talents with which nature has furnished them, whether for support or desence.

Why

^{&#}x27;Neither the gallant manacuvies off 5t Christophers, nor the neamorable 12th of April, took place till the fpring following.

Why the effect of this propentity to fea affairs was not more confpicuous in the earlier part of our history, may be accounted for likewise from our insular situation. Occupied with disputes, while divided into two kingdoms, our attention was withheld from the rest of Europe; and, separated as an island, we were much less the object of foreign interference: But, as soon as these internal disputes began to subside, which in a great measure they did, from the insuence that the hope of succeeding ELIZABETH had upon MARY Queen of Scots, and her son JAMES, this naval disposition broke forth with irresistible force; and, cherished by successive improvements in commerce, every obstruction being removed by the Union of the two kingdoms, it has produced effects which have been the admiration of the world.

It is obvious that, from the greater extent of coast, number of bays, dangerous ferries, and from the various sea-carriage which our produce consequently requires, a greater portion of our people must be bred to a seafaring life than is necessary in other nations. From these causes, as well as from the tempessuous nature of our seas, rapidity of our tides, and inconstancy of our climate, it may be expected, that our seamen, besides being numerous, ought at the same time to acquire courage and dexterity sufficient to encounter the difficulties to which they must unavoidably and constantly be exposed; and that, from a combination of all these circumstances, a national character will arise, distinguished by a hardy and persevering interpidity, which, without such causes, can never exist.

NAVAL TACTICS.

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A preposession in favour of one's countrymen is both natural and commendable; but, where they have undertaken and uniformly succeeded in great and glorious enterprizes, it does not require the influence of national prejudices to conclude that they are distinguished by an extraordinary character. Whether this may have arisen entirely from the causes above enumerated, or in some degree also from the nature of our government, is not the object of our present inquiry: it is sufficient, for the purpose of this Essay, that such a character is actually found to exist in this illand.

During the reign of ELIZABETH, not to dwell upon the fumous expeditions of DRAKE, CANENDISH, NORRIS, and the Earl of CUMBERLAND, for which we refer to our best historians, where can a more issufficient example of naval skill be met with, than the conduct displayed in the description of the Spanish Armada! in which we may observe that the prudence of sustaining a desence, by suffering that immense armament to waste its force in a contention with the winds and waves, was no less conspicuous than the intrepidity with which the repeated attacks were made.—Sir Martin From suer's exploits and death before the harbour of Brest resect additional glory on his countrymen.—Neither ought the spirited behavour of James Lancaster before Fernambuco, in the Brazis, to be forgotten. Seeing the shore lined with great numbers of the enemy, he ordered his men to row their boats with such violence against the shore, as to split.

them

^{*} See Hume's Hillory, Chap. 51. 52, and 53. 4to clit.

them in pieces. By this bold action he both deprived his men of all hope of returning, unless by victory, and terrified the enemy, who fled after a thort relitance.—We may also mention the second enterprise at Cadiz, when Essex threw his hat into the sea.—But the true character of the British sailor is so justly displayed in the obstinate relitance made by Sir Richard Green-ville, in a single ship, against a numerous Spanish fleet, as described by Mr Hume, that an account of the action shall here be given in the very words of that great historian.

" LORD HOWARD being fent with a squadron of seven thip, " to intercept the West ladia sleet, was attacked by a Spanish " fquadron of 'fifty-five fail. By the 'courageous obflinacy of " SIR RICHARD GREENVILLE the Vice-Admital, who refuted " to make fail with the rest of the squadron, one ship was taken, " being the first English man of war that had fallen into the hands " of the Spaniards. This action of Sir Richard Greenville " is so singular as to merit a more particular description. " was engaged alone with the whole Spanish fleet, of fifty-five ". fail, which had ten thousand men on board; and from the " time the fight began, which was about three in the afternoon, " to the break of 'day next morning, he repulled the enemy fif-" teen times, though they had continually thifted their velfels, " and boarded with fresh men. In the beginning of the action, " he himself received to wound, but he continued doing his duty " above deak till eleven at night, when, receiving a freth wound, " he was carried down to be dreffed.

[&]quot;During this operation, he received a fhot in the head; and "the

" the furgeon was killed by his fide. The English began now " to want powder; all their arms were broke or become ufelefs: " of their number, which was but a hundred and three at first," " forty were killed, and almost all the rest wounded; their masts " were beat overboard, their tackle cut in pieces, and nothing " but a hulk left, unable to move one way or other. In this fi-" tuation, Sir Richard proposed to the ship's company to trust to " the mercy of God, not to that of the Spaniards, and to destroy " the ship, with themselves, rather than yield to the enemy. The . " mafter-gunner, and many of the feamen, agreed to this despe-" rate refolution; but others opposed it, and obliged GREENVILLE " to furrender himself prisoner. He died a few days after; and " his last words were, "Here die I RICHARD GREENVILLE, " with a joyful and quiet mind, for that I have ended my life as " a true foldier ought to do, fighting for his country, his Queen, " religion, and honour. My foul willingly departing this body, " leaving behind the lasting fame of having behaved as every " valiant foldier is in duty bound to do." The Spaniards loft in " this sharp, though unequal action, four thips, and about a " thousand men; and CREENVILLE's vessel herself perished soon after, with two hundred Spaniards on board *."

It would be endless to enumerate every achievement, where the capture, almost of every ship, must have furnished materials for a particular panegyric. Mr Hume, in treating of this subject, expresses, himself in the following manner: "In every action, the English, though they had long enjoyed domestic peace, discovered a strong military disposition, and the Queen, though herself a heroine, found more frequent occasion to reproach

by

"reproach her Generals for encouraging their temerity, than for countenancing their fear or caution." However much Elections of the might with to temper the ardour of her fubjects on fome occasions, on others she does not seem to be wanting in her endeavours to rouse their spirit sufficiently; for, in a harangue before Parliament, when speaking of the Spanish Armada, the said, "But I am informed, that when he, Philip, attempted this last invasion, some upon the sea-coast forsook their town, sled up higher into the country, and lest all naked and exposed to his entrance; but I swear unto you, by God, if I knew those persons, or may know of any that thall do so hereaster, "I will make them seel what, it is to be so feasful in so urgent a cause." "

Notwithstanding the great attention which ELIZABETH gave to the Navy, yet, at her decease, it consisted of forty small thips only, of which number sour did not exceed forty guns, and but two of these amounted to a thousand tone; twenty—three others were below sive hundred tone; of the rest, some were of sifty, and some even did not exceed twenty tone; and the whole number of guns belonging to this sleet was 774. If, such brilliant and glorious actions were performed by so inconsiderable a force, what might we not expect from our navy in its present state? For the honour of the English at that time, it must be remarked, that, while the Royal Navy consisted of these forty ships only, so great was the national spirit, and so much was in united, that an infinite number of other ships of war was soon sitted out, as well by private gentlemen, at their own expense, as

^{*} Hume's Hift. whi fupra. .

by the different fea-ports. Thus, the ill concerted , but formidable attempt of the Spanish Armada, by faither exciting the resentment, and affording the greater occasion of gratifying the military genius of the nation, now about this period first feriously excited in naval enterprise, may be said to have laid the foundation for that renown, which, ever since, has been maintained with so great spirit.

One would have thought, however, that the Naval force should not have increased much during the reign of FLIZABETH'S successor James, when it is considered, that the practice of the English merchants then was to carry at their trade in foreign bottoms; yet, from the 1582, when the number of seamen, upon a computation, amounted to 11,295, butil the year 1610, at the tenning of the domestic troubles, that number was found to be tripled.

After an interval of twelve years, the Dutch war was the next occasion of a farther diplay of our Neval character. But, it must be observed, that, while the Fuglish seamen had been so often engaged, and generally successful, in the lesser battles, or rather a terprises, yet, till now, they had never been tried in the greater, where a number of thips were assembled together. However, their worked intrepidity, far from forsaking them on this new and unexperienced occasion, seemed to be augmented, or rather exalted to a state of enthusique fury, which

WAS

was supported with an unremitting perseverance during the courts of three dreadful wars; in the first of which we had nine pitched battles; in the second five; and in the third not less than five also; making in all ninereen general engagements; in one of which the fight was renewed for three additional days fuccessively; in another for two days; and in a third for one day; which may fairly be flated for other fix engagements; making, when taken together, twenty-five days of general actions. And, what would now be confidered as ridiculous and impracticable, many of the officers appointed to the command of thefe fleets had never been in fea-fervice till they were past the age of forty, and some even of fifty years. Of the last number was BLAKE, who, although renowned for the many obstinate battles he had been engaged in, particularly that in the Downs, where he had no more than fifteen thips, did not refule the combat when attacked by forty-two ships of the enemy, led on by the great VAN TRUMP. Yet for nothing was he more conspicuous than for his patriotic virtue. When in opposition to the party then in power, " It is still our duty," faid he to the seamen, " to " fight for our country, into whatever hands the government " may fall."

In all of these enterprises, whether with the Spaniards or the Dutch, whether in making the stack on castles, ships in harbours, or encountering thip with ship in close action, and formed in line of battle, we shall find the British seamen, whether equal or interior in number, victorious or worked, invariably fired with such enthusiastic courage, that these battles, though not always.

decitive, were constantly inarked with strong effect; ten, twenty, thirty, or more thips, being taken or destroyed, two thousand men killed, and as many taken prisoners.

Therefore, without derogating from the gallant behaviour of the Dutch, which was equally displayed in those wars, we are bound, from these proofs and examples, to believe, that British seamen are, by nature or habit, endued with a peculiar extraordinary character. And, though the spirits of the people might have been, for a little time, depressed by the unfortunate battles of Beachy-head and Bantry-bay, which were sought some time after; yet the natural impressions, so justly in favour of our seamen, soon recovered our considence; which was so much increased by the battle off La Hogue, that, many years afterwards, the victories off Malaga and Messina were things to be expected of course.

The long intervals between these actions, and that of the war 1743, nowise abated the sanguine impressions respecting our seamen. Much effect was expected from the powerful sleet sent into the Mediterranean under the command of MATTHEWS and Les rock, who encountered the combined sleets of France and Spain on the 11th of February 1744. But, intending afterwards to give a more particular description of this assair, we shall only add, that MATTHEWS, who commanded, accompanied with the Marlborough and Norfolk, his two seconds a held and a stern, together with the Berwick in another place, broke out from the line of battle, got within a proper distance, and sought with great bravery; but, being ill supported by the rest of the fleet, little more

was done, than to show what cannon-shot, at a reasonable distance, might effect. The two Admirals mutually accused each other; and MATTHEWS, in consequence of a trial, was broke. But the late King, without attending to the nice distinctions which had determined the Court-martial, and being satisfied that, the Admiral had behinded like a brave man, refused to confirm the sentence.

Happily some other more favourable opportunities offered, during the course of this war, in which, having a greater superiority, we were more successful. These were, the capture of the May sleet by Admiral HAWKE; the voyage round the world by Lord Anson; his bold attack of the Acapulco ship, so much his superior in force; his capture of six French ships of the line and Indiamen in October.

These, with the unremitting exertions in the many lesser seacombats, removing the evil impressions made by the miscarriage in the Mediterranean, we still flattered ourselves that the glory of the British flag was yet untarnished.

But, be that as it may, we could not, without some emotion, recal to mind those tremendous and glorious battles with the Dutch, in which the spirited and united exertions of our seamen had been so justly celebrated, that, when the last war broke out, our minds were so prepossessed with enthusiastic partiality, that there were but sew of our countrymen who did not simily believe and trust, that, if one British sailor was not a match for two of the enemy, he was at least a very superior being.

[

How great, then, was the disappointment of the nation, when it was known, that Admiral Byno, commanding a British sleet of superior force, in a general engagement with the French, without losing a ship, absolt without the loss of a man, half of his sleet not having fired a shot, had acknowledged himself worsted, by slying to Gibraltar, abandoning Moorca, and leaving the garrison at the mercy of the enemy, who were then masters of the sea!

Neanwhile, it is with aftenifhment that we must remark the innumerable lesses consides during the course of this war, where examples of persevering courage and daring in repidity were invariably exhibited in private as well as public service, and generally of such effect, that one or other of the combatants, of necessity, was obliged to strike. A complete catalogue of which, however acceptable, would be too great for the bounds of this work.

It much be owned, indeed, that feveral fortunate and important occasions occurred during the course of this war, where numbers of thips were assembled, particularly that of Hawke with Conflans; but then the enemy, though nearly equal, after discovering great want of determination, fairly ran away, without coming to an engagement. But, as we had a great superiority on all these occasions, excepting the one now mentioned, the decision that took place, by means of that superiority, will never destroy the force of the general observation.

Again, while we remark the worderful exercions, and confrant fuccess, attending the lesser condicts; while we remark how

how much, and how often, our thips hare been put to fevere trisk by being exposed, in all weathers, during the floring of winter, the enemy not daring to fet out their heads "; when, ofter recollection, we remark, that, to the numerous, bold, and fuccessful enterprises, coups, de main, performed during the Last 250 years, and that our enemies have only the fingle diffrace which befel us at Chatham to counterbalance fo great an account, thould we not at the fame time remark, that this boafted intrepidity, this perfevering courage of British seamen, has never once been brought to trial, where its would have been of the. greatest importance; that is, in the greater engagements; of which, because this superiority, has never had an opportunity of being displayed, the result has always been the same, namely, that, in fuch actions, our fleets, in the two last wars and the present, have been invariably hassed, may worsted, without having ever left a thip, or almost a manni-

While we remark these circumstances, is it not evident, and will it not be admitted, that one of three things must be the fact, either that our enemy, the French, listing acquired a superior knowledge, have adopted some new system of managing great steets, not known, or not sufficiently attended to by us? or that, on the other hands we have persisted in following some old:

^{*} Alluding to the squadron of British thips keep in the Bay of Biscayslusing the course of last water to watch over the motions, of the enemy, in winter as well as in summer.

old method, or inflatictions, which, from later improvement, ought to have been rejected? Or, lastly, that these miscarriages, so often, and fatally repeated, must have proceeded from a want of spirit in our seamen?

But as, from the many inflances given, both of public and private exertion, the mind must revolt at this last supposition, it follows, that those repeated miscarriages must have proceeded from one or other of the two sirst, or from both?

During the course of the wars with the Dutch, before mentioned, much improvement was made, particularly in the invention of signals. But the naval instructions then framed, although founded upon experience and observation, and though they might be admirably fitted for sighting in narrow seas, where these battles were sought; yet, from later experience, it will be found, that they have been but ill qualified for bringing on an action with a fleet of French ships, unwilling to stand a shock, having sea-room to range in at pleasure, and desirous to play off manageores of desence, long studied with the greatest attention.

But if it were possible that there could have remained a doubt of the truth or force of these observations before the breaking out of the present war, will not this doubt be resolved, if they shall be confirmed by every case that has followed since; when there we consider the intrepidity and exertion so conspicuous in the lesser conslicts, or the detect of conduct and address, so pale

pable in most of the greater engagements, although, at the same time, our Admirals, whether by good fortune, by skilful seamanship, or by permission of the enemy, have never failed, on every occasion, to acquire their wish, viz. the circumstance of being to windward; excepting, indeed, on those occasions, where the French have chosen to keep such an advantage, without availing themselves of it; a circumstance which is plainly a confirmation that their system or mode is different from ours, and that they are uniformly determined never to be brought to make the attack, if it can be avoided.

From all which these three conclusions will naturally follow: 1st. That, in bringing a single ship to close action, and in conduct during that action, the British scamen have never been excelled: 2dly, That the instructions, (by which is meant the method hitherto practised of arranging great sleets, so as to give battle, or to force our enemy, the French, to give battle upon equal terms), after so many and repeated trials, having been found unsuccessful, must be wrong: And, lastly, that, on the other hand, the French having repeatedly and uniformly sollowed a mode which has constantly the effect intended, they therefore must have adopted some new system, which we have not discovered, or have not yet profited by the discovery.

But, it may be affect, Have the French ever effected any thing decitive against his? Have they ever, in any of these rencounters, taken any of our ships? Have they ever, prefuming

upon their superior skill, dared to make the attack?—No. But, considert in their superior knowledge in Naval Tactics, and relying on our want of penetration, they have constantly offered us battle to leeward, trusting that our headlong courage would harry us on to make the customary attack, though at a disadvantage almost beyond the power of calculation; the confequences of which have always been, and always will be, the same, as long as prejudices prevent us from discerning either the improvements made by the enemy, or our own blunders.

To be completely victorious cannot always be in our power; but, to be conflantly baffled, and repeated y denied the fatisfaction of retaliation, almost on every occasion, is not only shameful, but, in truth, has been the cause of all our late misfortunes.

Before concluding this part of the subject, it may be proper further to observe, That, though our apprehensions of suffering in character and importance, as a Naval Power, might have been very great at the breaking out of the war with the Colonies, from an idea that the recent increase of that importance had arisen alone from the growth of these Colonies; yet, from experience, from the great exertions made, and from the continuance of the war itself, it has been clearly proved, that that increase must have arisen from other resources, which will every day more and more be found to exist in the Mother-Country herself. At the same time, from that superior exertion, so constantly and gloriously exhibited by our seamen in the lesser constantly and gloriously exhibited by our seamen in the lesser constantly.

flicts, as well during the course of the present as of the two last wars, we may rest satisfied that the character of the British tar is not in the least debased, but still as predominant as formerly.

Hence, if the American Colonies shall accomplish their wishedfor separation, Britain, by her force being more collected, and with these resources, will yet be more powerful than ever.

D

NAVAL

NAVAL TACTICS.

Of the ATTACK from the WINDWARD.

DEMONSTRATIONS

SECTION I.

METHOD OF ATTACK IN THE CASE OF SINGLE SHIPS.

1. SUPPOSE a fingle ship to windward at B (Plate I. fig. 1.), discovering an enemy's ship to beward at F, Is it the practice for B, in making the attack, to bear directly down, endwise, on F? No. Because, if B did so, the case would stand thus: Suppose the two ships of eighty guns each, the receiving ship

^{*} As it is by the influence of the wind alone that all the movements of flupping are performed, for this reason, as well as for rendering the following de monstrations more simple, we have made the course of the wind to proceed from the top of the page in the plans presented in this Work.

Thip I', by lying-to (as in fig. 2.), would prefent a broadlide of forty heavy guns bearing upon B, during a course of two miles, in which every flot might take effect, while B, in this polition, (Plate I. fig. 2.), has it only in her power to bring the two light guns of her fore-caftle, or bow-chafe, to bear on F, a difadvantage greatly exceeding twenty to one. But the receiving thip I, by lying broadfide to, will have all her mafts and rigging more open, and, consequently, will allow that to pass with less effect; her men, also, will be less exposed to the impression of shot, as 't must take the breadth of the thip only; whereas, the thip B, coming endwife down, must be greatly affected by every that that may take place in the extensive area of her hull and rigging; the masts and throwds, from being Icen in a line, and the whole space, from the fituation, being quadruply darkened with rigging, a shot taking place in that area, therefore, must carry away something of considetable confequence; and a flyot taking place in the hull must rake the men from one end of the thip to the other: Which fituation, er position of B to F, is understood to mean, that the thip B is raked by the ship P, and the consequence would be, that B would be difabled in her rigging, &c. long before the could arrive

N. B. In what follows, we have confined ourselves more particularly to the attack from the Windward; reserving what relates to the attack from the Lee-

The British is the stranguished by a red colour, and letters of referencebeginning with the alphabet and on ling at E; and the fibres of the energy are distinguished by a black colour, with letters beginning at F.

rive at a proper polition for annoying F; and, when the hastat tained this polition, F, by being entire in her rigging, will have it in her power to fight, or make off at pleasure.

2. The method then is, B having the wind, will run down aftern, as per dotted line, and getting into the course, or near the wake of F, or a position that will bring her parallel to the course of F, at a proper distance, she will then run up close along side of F, upon equal terms (as in fig. 3.); or, otherwise, on shooting a-head, she will wear, and run down on the weather bow of F (as in fig. 4.), till she shall force F to bear away to leeward, keeping close by F on equal terms; but, during the course, in both cases, carefully watching that F shall not have it in her power to bring her broadside to bear upon B, without retaliation.

SECTION II.

COMPARISON OF THE EFFECT OF SHOT DIRECTED AGAINST THE RIOGING OF A SHIP, WITH ITS EFFECTS WHEN DI-RECTED AGAINST THE HULL.

3. It having been often faid, that the French have made it a rule to throw the whole effect of their thot more particularly into the rigging of their enemy, and that the British, on the other hand, have been as attentive to point the force of their fire against the bull

hull of the ship, it may be proper here to state the two cases, and compare the effect:

- 5. In this critical juncture, when F and her confort are defirous of avoiding a close engagement, which of the two ships of B
 will be most disabled from following after, and closing with the
 enemy? Is it not evident, that it must be the ship which has lost
 part of her rigging; for, as she will not be able to make sufficient
 sail, till after having been repaired, this necessary stoppage must
 be of greater consequence at this time than if she had lost a hundred, or even two hundred of her complement of men; the remainder being always sufficient to navigate the ship.
- 6. Again, let the comparative bulk of the two objects be confidered: The hull of a fhip, taken by itself, on the one fide, and

the whole area of the masts, rigging, and hull, taken on the other; and, as the killing and destroying of men may be the principal view in firing at the hull, suppose, for example, a ship of seventy-four guns, which has two decks, the breadth, or rather the height, of the line exposed, which will comprehend both these decks crowded with men, cannot exceed twelve feet, which sum, multiplied by 120, the length of the ship, will give 1410 feet, the whole area of the vulnerable mark: But the area, comprehending the rigging and hull, of such a ship, will give a surface of twenty times these dimensions.

SECTION III.

OF BRINGING GREAT FLEETS TO ACTION.

And, if, A preliminary cafe, sheaping, that any one ship, in her station in the line of battle, must be at a considerable distance to admit of being exposed to the fire of three or more ships, bearing upon her at one and the same time, extended, as they must be, in the line of the enemy.

7. As it has also been often said, that some particular ship has been exposed, in battle, to the cannonade of three, four, or even five thips, all extended in the enemy's line, and all bearing up-

- on her at one and the fame time, figure 1. of Plate II. is intended to prove, that this thip must have been at a very great distance before the could have been exposed to the fire of even three thips, fappoling them to be extended in line of battle a-head, and at one cable's length afunder. Suppose a line of battle, in which four or five thips are extended, as I, H, F, H, I, the spaces between each fhip to be two hundred and forty yards, or one cable's length, and the length of each thip to be forty yards, to that the whole space between head and head, of any two ships, is two - hundred and eighty yards; and let the perpendicular line FK, proceeding right out from the beam of the middle ship F, be divided into a feale of fix cables length, making in all a diffance of 1440 yards: Quere, At what distance may any opposite ship of an enemy be exposed to the fire of three ships bearing upon her at one and the fame time? and let FI, F, H, be the three ships lying-to, and extended in line of battle a-head; and let the opponent thip be flationed in any of the lines drawn through the points E, C, G, and parallel to the line I, I.
- 8. From inspection, it will be evident, that the opponent ship, stationed at the point E, 720 yards distant, cannot, for any length of time, be exposed to the sire of more than the centre ship F. For the ship H a-stead, in lying-to in line of battle, will not be able to bring her head so much nearer the wind as to admit of her broadside to bear on E. But, supposing this to be practicable, will she not disorder her own line by being thrown out of her station, and also leave her head exposed to a raking sire from her opposites in the enemy's line?

9. Neither

- 9. Neither will it be more proper for H, the ship a-stern, to bring her broadside on E; for, in doing this, she will run to leeward, and empose her stern to be raked by her opposites.
- fire of the two ships, H, H, at the point E, she must be still less exposed at the point C, 480 yards distant; and it will be almost impossible for the ships H, H, to touch her at the point C, 240 yards, or one cable's length distant.
- 11. But one cable's length afunder is too small an allowance for accidents that may happen to ships extended in line of battle a-head. Therefore, let us suppose I, F, I, to be the three ships extended at two cables length as a funder, or 480 yards between each of the three ships:
- 12. Then it will be evident, if the opponent's ship could not be much exposed, at the point E, to the fire of the three ships, when at one cable's length alunder, that, proportionally, the would not be prove exposed at the point K, from the fire of the three ships now, when at two cables length alunder, which is double the dillance, or 1440 yards.
- 13. But as ships cannot well be kept in line of battle at a less allowance than one and a half cable's length afunder, it follows, that a ship must be at least 1080 yards distant, before the can be exposed or annoyed by a cannonade from three ships extended

E

- Am hie of battle, and bearing upon her at the same time, which det be supposed at L
- that any ship has been exposed to the fire of five, four, or even three ships of the enemy's line, that such ship has been at a very great distance. For, from what has been said, it will not be admitted, that either of the ships I, I, or H, H, a-head and a-stern of the principal, F, will have time to bring their broadsides to bear directly upon the ship in question, their attention, as is supposed, being too much engrossed by their opposite ships in the enemy's line, at the points B, B, B, R, who assuredly would take the advantage then offered, and rake them fore and aft.

SECTION IV,

- OF THE PRINCIPLES NECESSARY TO BE KNOWN FOR ENA-BLING US TO JUDGE OF THE DIFFERENT MODIS OF BRINGING GREAT FLEETS TO ACTION
- Let us suppose a fleet of ten, twenty, thirty, or more ships, of eighty guns each, extended in line of battle to legward and sing-to at I (Plate III. fig 1), with the intention of avoiding an attack, and suppose another fleet at B. of equal number and form

force of thips also extended in the of lattle three or four it is so, windward, and delitous of making an attack and coming to riole action, on equal terms, with the fad b

Plate I it must be evident, that, if the fleet B shall attempt to run down hendlong shap for ship upon the squadron I (s represented in Plate III fig. 2.) each individual ship of B having been exposed, during a course of two miles to a cannonade at a disad vantage of above twenty to one, must be inabled long before it can reach such a point of distance from F as properly may be termed close action, or even to reach a situation proper for an noying her antagonist in the line F

Agun, let it be supposed that B, though much disabled in his rigging, while in his course a a, a, from the windward has made his ships bring to, at a distance from whence he can hurt F (Plate III hg 3) Is it to be expected that F which delive has always been to avoid a close engagement and has il teady disabled the ships of B, will pat ently by still or i ut until B shall have time sufficient to disable him in his turn? I to not evident that F, while unburt, before he may seel the off cts of a camposade from It, and while enveloped in his own smoke, as well as that of the enemy will withdraw himself by bearing away to be ward to attain a new situation, where he may be out repair his rigging before he can be in order to follow and make a second strack?

NAVAL TACTICS.

- 18. Again, suppose that B, in place of going headlong, and endwise down, shall attempt to run down in an angular course, or lasking, as it has been called, (as in Plate III. fig. 4.) Is it not evident that this will be a means of protracting the course of P, and, consequently, the duration of the unequal cannotic ade from F, with the certainty of having his headmost ships.
- But it is also evident, (from fig. s.) that, should any ship. B in this angular line come to be crippled, her way, being Ropped, may, of confequence, occasion a confusion amongst the thips that are next a-stern, some running to leeward, while others tre endeavouring to get to windward of the difabled thip; and, while this point is fettling, the time may he loft, and, of confequence, the necessary support to the ships a-head, now'so far femarated, may be too long retarded, as in the cafe of Mr Byng. But as it may be faid, that a stoppage of one ship a-head wift not necessarily produce a stoppage in every ship a-stern, because they may go to leeward of the disabled thip: We answer, That, it is precisely what happened to Mr Bync, to be afterwards illustrated by the case of the Intrepide, when we come to give a description of that gentleman's engagement. Besides, by the suppolition, the thips a-head, in the van A, (Plate IV. fig. 1.) may be now engaged, and, of confequence, not having much headway, may be faid to be flationary; therefore, every thip a flath, if the shall attempt to bear down, as at D, D, from being confined to a determined course, must be brought into the position of being raked, when coming down before the wind

DEMONSTRATIONS



(as in fig. 2. Plate III.), and, confequently, of being completely disabled long before she can get close enough along-side of the enemy.

- 20. Again, the headmost ships, or van of B, having attained their station at A, that is, a-breast of the van of F, (as in Plate IV. sig. 1.), and having begun the cannonade, may we not suppose that F, whose conduct, or desire, has always been to save his ships, has instructed, that, so soon as any of his ships, particularly the van, shall begin to feel the effect of a cannonade, they shall immediately withdraw from danger?
- thrown in their fire upon the van of B, each ship, one after another, as instructed by F, shall bear away in succession, as at H, to form a new line at I I, two or three miles to lectural. Now, Is it not evident, from this cautious conduct, that F, seeing the embarrassiment of B, and that his ships are disabled, and his wan unsupported, will, by making a crowd of fail, endeavour to range past B, ship by ship, in succession, till his whole squadron has poured in their sire upon the van of B; and that he, F, will then bear away to join his headmost ships, and form a new line of battle to lecward, at I I, to be in readiness to receive a second attack, if B shall be so imprudent as to attempt it?

122. Is it not also evident, that, if any one or more ships of the squadron of R shall be crippled; they will have it in their power

1 1

to quit il sir flation being covered with finoke, at any time und to I ll to leeward, as at G, where they will be in lafety? As v further part of the lystein of manusuvio supposed to-be adopted, it may be conceived that hips in this mainer stall be reade to withdraw from battle kaying intermediate thing as a cover to keep up a good counterance in the line, and amufe the enemy But by the supposition and demonstration, the supe of the squadron B must be crappled and much separated, long, before they can get to their station, whether the attack shall have been made in the perpendicular direction, (as in Plate III fig & gow in the lasking manner, (as in fig. 4 and 5); therefore, in both cafes, Bs van must mevitably be exposed to the effect of the last deferibed movement, which was that F perceiving the thips of Bin disorder unsupported and disabled from following him, will make fail and discharge the fire of his whose line upon the van of B ship by ship as they pals in succession; and will form a new line to leeward, to be prepared, if another attack shall be made upon them

A FARTHER ILLUSTRATION

Again let B (Place IV fig 2) represent a fleet putting before the wind each thip with an intent, when brought to at a determined distance at A, to take up her particular autogonise in the line of the enemy F, to leeward, and, for argument's take, let I be supposed at rest, without any motion, a head whatever "st

- 24. From what has been faid, (No. 22.), it may be admitted, that alternate ships of F's line, under cover of the smoke, being made to withdraw from battle, as at G G; the intermediate ships left behind them in the line will be sufficient to amuse even the whole of B's sleet, while the ships G shall be forming a new sine H H, as a support, from the leeward: That, in such case, B, after being disabled, as he must be, and not having foreseen the manceuvre, will neither be able to prevent these intermediate ships from bearing away to join their friends, nor, were he able, would it be advisable to follow them; for the same manceuvre, with equal success and effect, can again and again be repeated.
- 25. In order to show the relative movements of both sleets, with respect to each other, Plate V. is divided, by a scale, into squares of a mile each, in which let F (fig. 1.) represent a sleet to leeward, with motion a-head, as required for good sleerage, each ship having sufficient to keep her under command of the rudder, and let it consist of twelve ships occupying a space of two miles, as extended in line of battle, at one cable's length as similar and F's motion through the water, if at the rate of four

* The length of a ship of 74 guns is about micrval between two ships at one cable's length asunder -	54 yards 240
Whe fixth part of a mile	294 6
Six ships, formed in a line of battle a-head, will extend about a mile in length, or 1760 yards	176.

-

, 34,

an miles per hour, may be expressed by the space comprehended by the perpendicular lines marked by F and G on the scale below. These sour lines comprehended by F and G will also express the time in which any fleer, B, may perform his compe, when coming down to the attack from the windward.

- 130. Let B be the opponent fleet, confifling also of twelve flows, and four miles to windward; and let the point A be 440 and of one quarter of a mile right to windward of the point G.
- 17. Then B, by putting before the wind, if he thall arrive at the point A, in the time time that F, the fleet to leeward, has crived at the point Cl, his motion will have been at the rate of the miles per hour, as must be evident from the scale of miles placed at the top of the figure; and his course, as described by the lines B A and C D, will be stanting or diagonal, forming an angle of 43 degrees with B C, his line ashead, and nearly 4 points large from the wind.
- 28. Again, if F, (Plate V. fig. 2.), by carrying more fail, thall move at the rate of fix miles per hour, that is, from F to G; then M, having his courte made thereby the more flanting, will have just formuch the greater difficulty of keeping his ships in line a-breast while coming down to the attack. For the leading thip meeting with no obstruction in her course, will push on, whereas every accelered of obstruction accumulating, as it happens to each ship progessionly, the rear, being affected in the greatest degree, will, for that teading be left the farther a-stern. But, from the very form

of this flanting course, every ship a-stern will be apt to get into the wake of the ship a-head. Therefore, the whole sleet of B, van and rear, will not arrive in the same time at the line A D, so as to be in a perfect line a-breast, and parallel with the sleet to leeward, but will have assumed the lasking form, as represented at the points M, N, and O, in the different parts of the course.

29. And again (in Plate V. fig. 3.), if the fleet to leeward shall keep his wind, so as to lie up one point, as per line of course F.C., making an angle of 11½ degrees with his former line of course K.F.K.: Then the rears of the two fleets will thereby be removed at a much greater distance, and the van A, of consequence, must be sooner up with the enemy's van, and evidently so much the farther from support, while F, by bringing up his ships in succession, will have it in his power to disable the van A, (No. 21.) and will afterwards bear away as at H, unhurt, and at pleasure; while B, at this time, by the supposition, being crippled, or having his rear, D, obstructed, and at a distance, will be unable to prevent him. And, in all the three cases, it is evident that the sleet B, so soon as he shall approach within reach of gun-shot, must be exposed to the fire of F's whole line, for he will be a-breast of B continually in every part of his course.

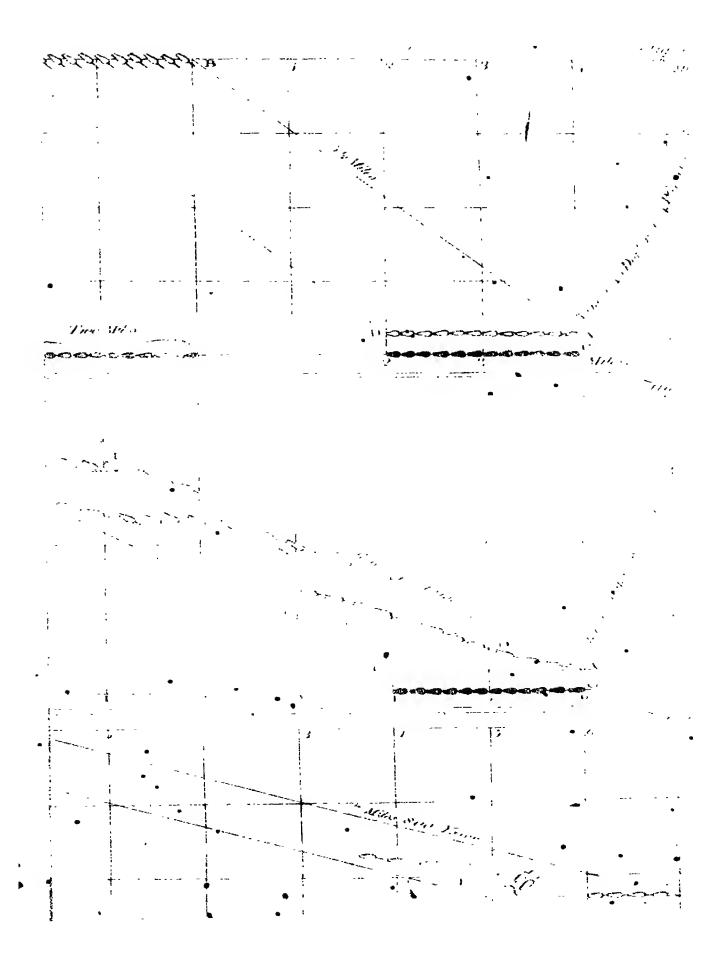
80. But the difficulty of bringing the rear of the windward fleet to action will still be more increased, if the sternmost thips of the fleet to leeward, in place of keeping their wind, shall bear away occasionally, as at M L, (fig. 9.)

 $\cdot \mathbf{F}$

- 31. All which being admitted, the difficulty of bringing opponent fleets to close engagement may be accounted for, without being obliged to have recomfe to that supposed inferiority, in point of failing, imputed to our ships, compared to those of the French, our enemy.
- 32. Hence it appears, that a fleet, B, to windward, by extending his line of battle, with a defign to ftop and attack a whole line of enemy's thips to leeward, must do it at a great disadvantage, and without hope of success: For the receiving fleet, F, to leeward, unquestionably will have the four following advantages over him, which will be more particularly proved when we come to examine the real practice.
- over the fleet B, while coming down to attack.
- 34. Secondly, That, when the ships of B are brought to at their station, if it blows hard, the shot from F, by the lying along of the ships, will be thrown up into the air, and will have an effect at a much greater distance; whereas, on the other hand, the shot from B, from the lying along of the ships also, will be thrown into the water, and the offect lost.
- applying at pleafure, the fire of his whole line against the van of B, who is now unable to prevent it, his ships being disabled, separated, and, therefore, unsupported.

.36. Fourthly,

- 36. Fourthly, That F will also have a greater facility of withdrawing from battle, the whole, or any one of the disabled thips of his line.
- If, then, after a proper examination of the late fea engagements, or rencounters, it shall be ound, that our enemy, the French, have never once shown a willingness to risk the making of the attack, but invariably have made choice of, and earneftly courted a leeward position: If, invariably, when extended in line of battle, in that polition they have disabled the British fleets in coming down to the attack: If, invariably, upon feeing the British fleet disabled, they have made fail, and demolished the van If, invariably, upon feeling the effect of the British fire, they have withdrawn, at pleafure, either a part, or the whole of their fleet, and have formed a new line of battle to leeward: If the French, repeatedly, have done this upon every occasion: And, on the other hand, if it thall be found that the British, from an irrefiftible defire of making the attack, as conflantly and uniformly have courted the windward position: If, uniformly and repeatedly, they have had their ships so disabled and separated, by making the attack, that they have not once been able to bring them to close with, to follow up, or even to detain one ship of the enemy for a moment; Shall we not have reason to believe, that the French have adopted, and put in execution, some system, which the British either have not discovered, or have not yet profited by the discovery?



NAVAL TACTICS.

EXAMPLES...

INTRODUCTION.

IT is proposed to illustrate the preceding DEMONSTRATIONS by EXAMPLES taken from late Engagements;—of which the sollowing is a Catalogue, according to the order of time in which they happened.

FNGACEMENTS IN FORMER WARS.

- 1. Admiral MATTHEWS' engagement with the combined fleets of France and Spain, off Toulon, February 11. 1714.
- 2. Admiral Byno's engagement with the French fleet, off Minorca, May 20, 1756.

ENGACEMENTS OF THE LATE WAR; TWELVE IN NUMBER.

- 1. That of Admiral KEPPEL, off Ushant, July 27. 1778.
- 2. Admiral Byron, off Grenada, July 6. 1779.
- 3. Admiral BARRINGTON, at St Lucia.

- 1. Sir George Bridges-Rodney captures the Spanish transports off Cape Finisterre, takes the Spanish men of war off Cape St Vincent.
- 5. His engagement with the French fleet, off the Pearl Rock, Martinico, April 17, 1780.
- 6. His rencounter with the same fleet, to windward of Martinico, May 15. 1780.
- 7. His fecond rencounter, about the fame place, May 19. 1780.
- 8. Admiral Arbuthnot, off the Chefapeak, March 16.
- 9. Sir Samuel Hood, off Fort Royal, Martinico, April 29.
 - 10. Admiral PARKER, on the Dogger Bank, August 5. 1781.
 - 11. Commodore Jounston, Porta Praya, illand of St Julian.
 - 12. Admiral Greaves, off the Chefapeak, September 5. 1781.

From this Catalogue, that the proposed Illustration may be made with the greater advantage, we shall begin with those engagements the most applicable to the subject, selected without attending either to the dates, or order in which they took place.

SECTION

SECTION I.

- Of Engagements, where the British fleets being to windward, by extending their line of battle, with a design to slop, take, destroy, or disable, the whole of the ships of the enemy's line to leaward, have been disabled before they could reach a situation from whence they could annoy the enemy;—and, on the other hand, where the French, perceiving the British ships in disorder, unsupported, and thus disabled, have made sail, and, after throwing in their whole sire upon the van of the British sleet, ship by ship, as passing in succession, have formed a line to leaward, to be prepared if another attack should be made.
- 1. Admiral Byng's engagement with the French fleet, off Minorca, May 20. 1756.
 - 2. That of Admiral Byron, off Grenada, July 6. 1779.
 - 3. Admiral Arbuthnot, off the Chefapeak, March 16. 1781.
 - 4. Admiral GREAVES, off the Chefapeak, September 5. 1781.
- 5. Admiral Sir George Bridges-Rodney, off the Pearl Rock, west end of Martinico, April 17. 1780.

- 1. THE DESCRIPTION OF ADMIRAL BYNG'S ENGAGEMENT WITH THE FRENCH FLEET, OFF MINORCA, MAY 20. 1756.*
- afternoon, upon the flarboard tack, and after they had weathered the French fleet, F, then upon the larboard tack.
- 39. B. (Plate VI. fig. 2.) The British fleet edging or lask-ing down to attack the enemy, F, lying to, to receive them. (Vide No. 18, 28, and 29.)
- 10. A. The van of the British obeying the signal, by bearing away two points from the wind, but each ship steering upon her opposite in the enemy's line.
- 41. A. (fig. 3.) The five headmost ships of the British line brought to, and engaged in a smart cannonade, but not till after having greatly suffered in their rigging by three broadsides received from the enemy, during a course of some miles, while, at the same time, they had it not in their power to make retaliation. (No. 17.)
- 42. G. The fourth ship of the enemy having received some little damage, or being so instructed, as Mr West has conjectured, bore away, that is, quitted the line, and, in a very little time after, the

[&]quot; British, 13 Jups, At 1, 100, 1 floop. " French, 12 ships, 5 frigates.

the fifth ship, II, then the two headmost, I, and, after them, the third ship, for the same reason, it is presumed, sollowed their example, and quitted the line also; each ship, as she went off, occasioning repeated huzzas from the British Tars, who conceived that the superiority of their sire had beat these ships out of their line; and, lastly, about the same time, but in another part of the line, the third ship a-stern of the French Admiral, (the ship against which the Ramillies more particularly directed her sire), quitted the line likewise, and withdrew from battle. (No. 20. and 24.)

- 43. While matters were going on after this manner in the van, the Intrepid, the fixth ship of the British line, at B, having lost her fore-top mast, was so taken a-back, that her course was stopped. This, of consequence, produced a disorder and stoppage to the ships next a-stern, some designing to go to leeward, and others endeavouring to get to windward of the distressed ship, as at B. (No. 19.)*.
- 44. (Fig. 4.) Meanwhile, the centre and rear of the French, who, though at a great distance, had been busy siring random shot, perceiving this disorder in the British line, (at B. sig. 4.), made fail, and with impunity, threw in the sire of their whole line, each ship as she ranged past the van of the British; after which they bore away in succession to join their own van, and form a new line of battle three miles to leeward, (as in sig. 5.), to be prepared, should the British Admiral have any thought of making a second attack. (No. 21. and 22.).

G

OBSUR-

^{*} The rate at which the thips were supposed to move through the water at this time, having their fore-fails and sore-top-fails set, might be full three miles per hour; and, with all their fails set, near fix miles. Admiral Byrg's Trial, p. 45.

OBSERVATIONS.

- 45. This engagement of the unfortunate Mr Byno, whether we shall consider the British mode of making the attack, or the French mode of avoiding the attack, while it offers an example strictly applicable to the principles laid down (Sect. IV.), is also a proof, that neither the one mode nor the other is a new practice, but is of a date as far back as the former war 1756.
- 46. The British fleet being to windward, in running down to the attack in an angular course, and extending their line of battle, with a design to stop, take, destroy, or disable, the whole of the ships of the enemy's line, by having their headmost ships the longer exposed to an unequal cannonade, and therefore to a greater share of the damage, have been disabled before they could reach a situation from whence they could annoy the enemy.
- 47. That a fingle ship, in their line of course (No. 28.), to make the attack, the Intropid (No. 19.) having lost her fore-top mast, and her way by that means being stopped, occasioned a disorder among the ships immediately a-stern, some endeavouring to pass her to windward, and some to leeward; by which accident of losing a mast, how much soever impossible it is to guard against it, much time was lost, and support to the ships a-head retarded at a time the most necessary, when sar separated from the rest of the sleet, and while obliged to sustain a fire from almost every ship in the enemy's line in passing. (No. 21.)

- On the other hand, that the enemy, from their polition to leeward, perceiving the effects of that superiority of fire, which undoubtedly they had over the British fleet, coming down to make the attack, whether it was in the mode of running endways right before the wind, as it was faid the van did for fome part of their course, or lasking, as was the form in the approach of the centre and rear divisions, laying hold of the advantage, that is, of the disorder occasioned in consequence, and without loss of time, or remaining till they might be crippled themselves in their turn, crowded fail, and, in the mean time, made fure of disabling a part of the British sleet, that is, the van; and whether it might, or might not, have been practicable for the enemy to have cut off any one, or more, of these headmost ships, now to far feparated and unsupported, is not disputed; but, as they could not hope to succeed in an attempt of this kind without fustaining some damage, they, wifely preferring a more cautious conduct, kept their ships unburt, to be the better prepared when formed in a new line of battle to leeward (No. 21.), to give the British Admiral a proper reception, should be again think of repeating the like attack, or should he afterwards attempt to throw in relief to the Cafile of St Philips, or molest their troops employed in the fiege, their particular object.
- 49. It has been faid, that first the fourth ship from the head of the enemy's line soon bore away, quitting the line; then the sister that, sollowed their example; and, lastly, the third ship aftern of the Admiral, and about the same time, quitted the line also. This, as a manœuvre, no doubt makes a part of their system, that alternate

thips it is be made to withdraw from battle (No. 24.), leaving intermediate (hips, as a cover to fustain the line, and in this way to anote the energy in the mean time:—And it was not in consequence of the function fire of the British van; for these ships of the brench that withdrew, as described, had received no damage, televere in no way disabled. One gentleman, a withest in the large trial which followed this action, has these words: "The brench fourth or fish ship from the van, seemed to me to have here up from the sire of our ships in the van, and "very form afterwards the three headmost of the enemy, but none of them appeared to me to be disabled; so that, whether it was to avoid action, or by a figual from their commander in chief, I know not; I should rather imagine the latter, as I had not observed any such close "engagement, to oblige ships of their seeming force to avoid an action †."

For Land 1, the fecond thip of the van, being asked, Did you beat away the ship opposed to you by yourself, without the aissistance of any other ship?' answered, No; I can't say that:

She was a very heavy ship the second ship, of greater scree.

The diffunce, on this occasion, between van and van of the opponent sleets, does at no time seem to have been sets than four hundred yards. By many of the armestes on Mr Byno's trial, it seems to have been understood, that notably had been killed or wounded on board the sleet by maskerry, not even in the van. On board the Desiance, the leading ship of the British squadron, small arms were, for some time, made use of small as a slo by the enemy, as was conceived by some's—but without effect on either side, as it would appear; for they were from hid abde.

† Advant Byng's Trial, p. 38.

‡ Ditto, p. 58,

BYNC'S ENGAGEMENT.

- f than the Portland, and the third fill greater, which much be a
- ' feventy-four gun ship: Neither did I expect they would have
- bore away fo foon; but their fourth and fifth thips bearing
- e away before, from the Captain and Buckinghun, they bore
- ' away alfo, really to our great furprife.'
- premifed in the Introduction (Page 6.), that neither was the usual spirit of British seamen any way descion on this occasion, nor could the cause of miscarriage be attributed to any fault of construction in our ships. For the only opportunity given, by which any comparison could be made, in point of failing, was when our sleet weathered that of the enemy, at one o'clock, immediately before the engagement. And this circumstance, if it was not a proof that the British ships were the better failers of the two sleets, showed plainly, on the other hand, that the French, in their giving up the contest about the wind, were not only unwilling to hazard the danger of making the attack, but indeed preferred the seeward situation, from whence they could with the greater certainty disable their adversary's ships, while they might preserve their own unburt. (See Introd. page 19.)

ADMIRAL BYRON'S ENGAGEMENT WITH THE FRENCH FLEET, OFF GRENADA, THE 6TH OF JULY 1779.

EXTRACT OF A LETTER FROM ADMIRAL BYRON, RELATIVE TO HIS ENGAGEMENTS

' It being my intention, from this intelligence, to be off St George's Bay foon after day-break, I drew the ships of warfrom among the transports, leaving only the Suffolk, Vigi-I lant, and Monmouth, for their protection, under the orders of * Rear-Admiral Rowley, who was intended to conduct the debarkment of the troops; but he was to join me with these ' flups if I faw occasion for their service. One of the enemy's * frigates was very near us in the night, and gave the alarm of our approach. Soon after day-light, (on Tuefday the 6th), the French fquadron was feen off St George's, most of * them at anchor, but getting under way, feemingly in great confusion, and with little or no wind. The fignal was imme-' diately made for a general chase in that quarter, as well as for Rear-Admiral Rowley to leave the convoy; and as not · more than fourteen or fifteen of the enemy's ships appeared to be of the line, from the position they were in, the signal was made for the ships to engage and form as they could get 'up: In consequence of which, Vice-Admiral BARRINGTON ' in the Prince of Wales, with Captain SAWER in the Boyne, ' and Captain GARDNER in the Sultan, being the headmost of s. the

* the British squadron, and carrying a press of fail, were soon ' fired upon, at a great distance, which they did not return till they got confiderably nearer. But the enemy getting the breeze of wind about that time, drew out their line from the ' cluster they were lying in, by bearing away, and forming to e leeward, on the starboard tack, which shewed ther strength to be very different from our Grenada intelligence; for it was be plainly discovered they had thirty-four fail of thips of war. ' twenty-fix or twenty-feven of which were of the line, and ' many of these appeared of great force. However, the general chase was continued, and the fignal made for close engage-' ment; but our utmost endeavours could not essect that; the ' enemy industriously avoiding it, by always bearing up when our ships got near them; and I was forry to observe, that their superiority over us, in sailing, gave them the option of f distance, which they availed themselves of, so as to prevent our rear from ever getting into action; and, being to lectuard, they did great damage to the masts and rigging, when our shot ' could not reach them. The ships that suffered most were those ' the action began with, and the Grafton, Captain Collingwood, the Cornwal, Captain EDWARDS, and the Lion, Capstain CORNWALLIS. The spirited example of Vice-Admiral ' BARRINGTON, with the former three, exposed them to a fevere fire in making the attack; and the latter three happening to be to leeward, suffained the fire of the enemy's rubole e line, as it passed on the starboard tack. The Monmouth likewife fuffered exceedingly, by Captain FANSHAW's having bore down, in a very gallant manner, to flop the van of the enemy's 5 fanadron.

NAVAL TACTICS.

* Syrvieren, and being it to action. But, from the very finart, and * well-dirested fire kept up by thefe thips, and others that were engaged, I am convinced they did the enemy great damage, · although their mafts, rigging, and fails, appeared lefs injured Fiften ours ". The four thips last mentioned, with the Fame, being for difabled in their mafts and rigging as to be totally in-' capable of keeping up with the fquadron, and the Suffolk ap-* pearing to have received confiderable damage in an attack made by Rear-Admiral Rowley upon the enemy's van, I took in the figural for chafe, but continued that for close engagement; 6 formed the best line which dircumstances would admit of; and Left the wind, to prevent the enemy from doubling upon us, s and cutting off the transports, which they feemed inclined to 6 do, and had the latter very much in their power, by means of their large frigates, independent of thips of the line. The . French iquadron tacked to the fouthward, and I did the fame, to be in readine's to support the Grafton, Cornwal, and Lion, that were disabled, and a great way a-stern. But the Lion being likewife much to leeward, and having loft her main and e mizen top-mafts, and the reft of her rigging and fails being ' cut in a very extraordinary manner, the bore away to the west-" ward when the fleets tacked, and, to my great furprife, no fhip of the enemy was detached after her. The Grafton and Corn-* wal flood toward us, and might have been weathered by 'the * French, if they had kept their wind, especially the Cornwal, which.

A flying proof of the advantage of demolishing an enemy's rigging, in presecure to the adling his men, or striking the hull of his ship. (No. 4th, 5th, and 6th

which was farthest to leeward, and lost her main top-mast, and was otherwise much disabled; but they persevered so strictly in declining every chance of close action, notwithstanding their great superiority, that they contented themselves with firing upon these ships, when passing barely within gun-shot, and suffered them to rejoin the squadron, without one effort to cut them off. The Monmouth was so totally discled in her masts and rigging, that I judged it proper to fend directions, in the evening, for Captain FANSHAW to make the best of his way to Antigua; and he parted company accordingly.

When we were close in with St George's Bay, the French coblours were feen flying upon the fort, and other batteries; which ' left no doubt of the enemy being in full pollession of the ' ifland. To diflodge them was impracticable, confidering the fate of the two fleets. I therefore fent orders to Captain-BARKER, the agent, to make the best of his way with the ' transports to Antigua or St Christophers, whichever he could ' fetch, intending to keep the King's ships between them and the French fquadron, which, at the close of the evening, was ' about three miles to leeward of us, and, I had no doubt, would at least be as near in the morning: For, although it was evident from their conduct throughout the whole day, that * they were refolved to avoid a close engagement, I could not e allow myself to think, that, with a force so greatly superior * the French Admiral would permit us to carry off the transports ' unmolested: however, as his squadron was not to be seen next ' morning, I conclude he returned to Grenada.

NAVAL TACTICS.

" It is my duty on this occasion to represent, that the behaviour for the officers and men of his Majesty's squadron was such 6 as became British feamen, zealous for the honour of their * country, and auxious to support their national character. 'The inarines, likewife, and troops that were embarked, with filter efficers, in the King's fhips, behaved as brave foldiers; fined, from the exemplary good conduct of those who got into ' action; from the vifible effect which the brifk and well-directed ' fire had upon the enemy's thips, and from that cool, deter-"mined refolution, and very flrong defire of coming to a close 6 congagement, which prevailed univertally throughout the fquadron. I think myfelf jullifiable in faying, that the great supe-' riority in numbers and force would not have availed the enemy 6 fo much, had not their advantage over us in failing enabled them to preferve a diffance little cideulated for deciding fuch conteils.

GRENADA, JULY 6. 1779, TAKEN FROM THE FOREGOING LETTER *.

52. F, (Plate VII. fig. 14) The French fleet, as they were feen at day-light off the town of St George, most of them at anchor, but

France, 20 th ps, 1 frigate, was a flect of transports. French, 26 haps, 7 frigates.

but getting under way, and feemingly in confusion, with little 'wind.

- G, Frigates on the out-look.
- B, The British fleet discovering them from windward.
- 55. B, (fig. 2.) The British now extended in line of Buttle
- A, The three headmost ships under Vice-Admiral Barrington, carrying a press of fail, in consequence of the signal for general chase, were soon fired upon by the enemy, which sire was not returned till be got considerably nearer.
- F, The enemy having now got the breeze of wind, are feen drawing out their line from the cluster they were lying in, and forming to leeward on the starboard tack.
- 54. B, (fig. 3.) The British fleet after the fignal for close engagement, which, with their utmost endeavours, they could not effect; the enemy industriously avoiding it, by always bearing up when our ships got near them, as at F. Their superiority over us in failing gave them the option of distance, which they availed themselves of, so as to prevent our rear from ever getting into action; and being to leeward, they did great damage to the master and rigging, when our shot could not reach them. Though the three headmost ships, A, were exposed to a severe fire in making the attack, yet the Grasson, the Cornwal, and Lion, being farther to leeward, at C, and consequently nearer the enemy, suffered most, having sustained the sire of the enemy's website line as it passed them, to leeward, upon the starboard tack. The

Monmouth, D, also suffered considerably, by Captain Fanshaw's having gallantly bore down to flop the enemy's van, and bring it to action; as did the Suffolk, in another attack upon the enemy's van.

- 55. B, (fig. 4.) The British fleet forming the best line that circumstances would admit of, to prevent the enemy from doubling back upon us, and cutting off our transports, which they deemed inclined to do, by means of their large frigates, as well as their thips of the line.
 - C. The Grafton and Cornwol left far a-stern.
 - E, The Lion, being much thattered, making off to leeward.
- 36. F, (fig. 5.) The enemy, having tacked to the fouthward, and upon the larboard tack.
- B, The British, after having immediately got upon the same tack, to be in readiness to support the Graston and Cornwal, who were disabled, and had been left, a great way a-stern, as at C. But the Lion, being much more shattered, had bore away to the westward, as at E; and, to our great surprise, no thip of the enemy had been detached after her.
- ready described, is so great, that, whether the mode in which the British made the attack, or the mode in which the French avoided it, shall be considered, we have no doubt of showing, that the circumstances in either case were equally essential by the principles laid down (Section IV.); but as the importance of the

the subject requires that this should be done in the most satisfactory manner, the observations made shall be supported by extracts from the Admiral's letter.

I.

OBSERVATIONS ON THE BRITISH MODE OF ATTACK.

58. That the Admiral by extending his line of battle, in an attempt to stop the van of the enemy, and bring it to action, it may be admitted, that it was with the intent of taking, destroying, or disabling every opponent ship.

59. In this attempt, however, the ships in the van, by the nature of the course they were obliged to take (No. 27, 28.), were exposed, for a long time, to a heavy sire, which they could not return, or did not return.

EXTRACTS FROM THE ADMIRAL'S LET-TER-IN SUPPORT OF THESE OBSERVA-TIONS.

The Monmouth likewise suffered exceedingly, by Captain Fanshaw's having bore down in a very gallant manner to stop the van of the enemy's squadion, and bring it to action (e).—And the Sussolk appearing to have received considerable damage in an attack made by Rear-Admiral Rowley upon the enemy's van; '(g.)

The fignal was made for the ships to engage and form as they could get up; in consequence of which, the Prince of Wales, the Boyne, and the Sultan, the headmost ships of the British, and carrying a press of sail, were soon fired upon, at a great distance, which they did not return till they got considerably nearer. '(Vid. a.)

65. That by this course, which must have been in the slauting or lasking form (No. 28.), the ships of the van having got far a-head of the rear, were therefore the sooner in with the enemy; but being disabled by the fire they received in coming down, and becoming in a manner immoveable, or stationary, compared with the enemy, they were obliged to sustain the continued fire of their whole line, ship by ship, as they passed in succession, without having it in their power to stop the van, as intended, or even to bring a single ship of them to action.

61. That the rear, by the nature of this courie also, not from any inferiority in point of failing, compared with the encmy, being at first left far a-stern by the van (No. 28.), and afterwards, as may be supposed, having met with ob-Arnction from difabled ships a-head, might have been prevented from carrying support to the van, in like manner as was occasioned by the Intrepid in MR Byng's action, thips a ttern endeavouring to go to windward of the difabled ship, but some for certain passing to leeward; for how, otherwife, can we account for the fituations of the Grafton, Cornwal, and Lion, or for the gallant attempt of Captain FANSHAW to flop the van of the enemy, and bring it to action? those the action began with, the Graston, Captain Collingwood, the Cornwal, Captain Edwards, and the Lion, Captain Cornwallis. The spirited examples of Vice-Admiral Barrington, with the former three, exposed them to a severe sire in making the attack; and the latter three happening to be to leeward, sustained the fire of the enemy's whole line, as it passed on the starboard-tack." (Vid. d.)

Their superiority over us in failing gave them the option of distance, which they availed themselves of, so as to prevent our rear from ever getting into action. (Vid. c.)

II.

OBSERVATIONS ON THE FRENCH MODE OF RECEIVING THE ATTACK.

62. The French, on the other hand, feeing the British squadron coming down to attack them, drew out their line of battle by forming to leeward; of necesfity on this occasion, but admirably sitted for their manner of fighting, which peculiarly might be faid to confift, in an address qualified for faving their own ships, while they should have it in their power to disable those of their enemy. According to this fyllem, then, fo foon as the British squadron approached within what might be thought the greatest pollible range of cannon-shot, and while it was coming down before the wind, the French, from their whole line, kept up a heavy fire; but, as foon as any of the British thips had brought-to, and they, in their turn, began to be annoyed by the British fire, the ships the most exposed bore away, and withdrew from battle (No. 20.) And whether this was in the van or centre, most probably it was in EXTRACTS FROM ADMIRAL BYRON'
LETTER CONTINUED.

The enemy getting the breeze of wind about that time, drew out their line from the clutter they were lying in, by bearing away and forming to leeward on the starboard-tack, which showed their strength to be very different from our Grenada intelligence; for it was plainly discovered they had 34 fail of thips of war, 26 or 27 of which were of the line, and many of these of great However, the general chafe was continued, and the figual made for close engagement; but our utmost endeavours could not effect that, the enemy induftrioufly avoiding it, by bearing up when our thips got near them. ' (Vid. b.)

the manner as represented in Plate IV. fig. 2. that ofterwate ships should withdraw, while intermediate ships should be left to all up the intervals, and support the line, (No. 49.); while the rear, to avoid every possibility of being forced into action, kept bearing away (as at H, fig. 3. Plate VII.) in like manner as before described (No. 30. and Plate V. fig. 3.)

63. And now again taking advantage of the difordered condition of the British fquadrou, (for, at that time, feveral of the headmost ships, from the severe fire received in coming down, lay crippled, while the Grafton, the Cornwal, and the Lion, having got confiderably to leeward with the intention of covering their friends, were therefore the more exposed) the French, I fay, laying hold of the opportunity, and without delay, or remaining till they might be disabled themfelves (No. 48.), made fail, and thip by thip, as many as could reach in passing, threw in upon the above thips the whole of their fire, when, having formed again, for the fecond time, to leeward, they were prepared again and again to play the fame manœuvre, fo often as the like attack (No. 21: 22. 48. should be repeated. and 49.)

64. Whether it might, or might not have been prachicable to cut off either of these

From the very finart and well-directed five kept up by these ships, meaning the Prince of Wales, the Boyne, and the Sultan, and afterwards the Grafton, the Cornwal, and the Lion, with the Monmouth and others that were engaged, I am convinced they did the enemy great damage, although their masts, rigging, and sails, appeared less injured than ours, the sour ships last mentioned, with the Fame, being so disabled in their masts and rigging, as to be incapable of keeping up with the rest of the sleet; and the Susfolk appearing to have received considerable damage, Sec. (Vid. f.)

The Grafion and Cornwal stood towward us, and might have been weathered

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thefeships, the Graston, Cornwal, or Lion, is not disputed; but, as they did not think they could succeed in that attempt, without sustaining some damage, they, as usual, preferred a conduct more cautious, and kept their sleet intire, that the reduction of the island Grenada, their particular object, might be carried on with the greater certainty of success. (No. 48.)

by the French, if they had kept their wind, especially the Cornwal, which was farthest to leeward, and lost her man top mass, and was otherwise much databled; but they persevered so trictly in declining every chance of close action, notwithstanding their great superiority, that they contented themselves with firing upon these ships, when passing, barely within gun-shot, and suffered them to rejoin the squadron, without one essent to cut them of." (Vid. 1.)

65. The damage received by the French ships must have been but trisling; for, otherwise, the British Admiral would not have had reason to express an apprehension that they might be able to double upon him and cut off his transports, which were, at the time, a considerable way to windward.

I sook in the fignal for chafe, but continued that for close engagement; formed the best line which circumstances would admit of; and kept the wind, to prevent the enemy from doubling upon as, and cutting off the transports.' (Vid. 6.)

66. On this occasion, the whole of the French system seems to have been as completely sollowed out as in the former affair, that of Mr Byng; they preserved their own ships emire, while they disabled those of their enemy; and so intent were they in keeping their main object in view, the making themselves masters of the island, that they cautiously avoided every chance that could lead them into a serape, which a close engagement

possibly

The French fquation tocked to the fouthward, and I did the fame to be in readine's to support the Grafton, Cornwal, and Lion, that were disabled, and a great way a stern; but the Lion being likewise much to seeward, bore away to the westward, and having lost her man and mizen topmats, and the rest of her rigging and fails being cut in a most extraordinary manner, the bore away to the westward, when the sleets tacked;

possibly might have been, even when opport mines calcred, apparently fortunate, to has the coiting off the transports, or the equire of those fore-mentioned ships, the Graston and Cornwal, or the Loop. and, to my surprise, no thip of the encmy was detached after her.

For although it was evident, from their conduct throughout the whole day, that they were refolved to avoid a close engagement, I could not allow myfelf to think, that, with a force so greatly superior, the French Admiral would permit us to carry off the transports unmolested. '(Vide 1.)"

166. But befides the causes mentioned for retarding the rear of a fleet to windward, from getting into action with a fleet to leeward, there is another, which, being a manocuvre of course, may therefore have taken place on this occasion, although not taken notice of by Mr Byron in his letter.—For illustration's take, -If the opponent fleet to leeward, as extended in line of battle, fhall lie up but one fingle point to the wind (No. 29.) the vans of the two fleets must mutually approximate, and get within fighting distance; while the two rears, of consequence, may still be fome miles afunder; and the more numerous the two fleets are, and the more they are extended, each of them in their proper line of battle, the greater will this proportional distance be: Eor, if two fquadrons, confifting of twelve thips each, (as reprefented in Plate V. fig. 3,), shall make this distance between the two rears amount to one mile and a half; in this engagement of Mr Byron's, where the two iquadrons, each of them, confifted of 21 ships, even the least numerous, it follows, that the diffance between the two rears, according to the fame ratio, might,

might, by this reason alone, have amounted to 4620 yards, or 25 miles.

- 67. Again, should the ships in the rear of the sleet to lectured, at the same time, keep bearing away, (as represented in Plate V. fig. 3. at L and M, or in Plate VII. fig. 3. at G and H), and which undoubtedly they did in this engagement, then the space between the two rears will be still more increased.
- 68. From all which, the feveral advantages which a fleet to leeward has over an extended fleet making an attack from the windward, as formerly enumerated, are fo fully confirmed, that in recapitulating them, we are obliged to make use of almost the same words as are made use of by Mr Byron himself in his letter.
- 69. If, By their superiority of fire, the ships in the van were disabled in coming down to the attack; and, before they record brought-to, in a situation from volume they could among the enemy, (No. 33.)
- 70. 2dly, By being to leeward, the enemy, he fays, did great damage to our masts and rigging, while our shot could not reach them, by being thrown into the roater. (No. 34.)
- feparated and unsupported, or being farther to lectuard, as he says, suffered most, having sustained the sire of the enemy's whose line as it passed to lectward. (No. 35.)

- 72. 41/1/r, And is it not evident, as well from his letter, as from the description, that the enemy, from their lecture situation, laid hold of that advantage, by stealing away at pleasure? (No. 36.)
- 73. Infly, From the letter it is clearly demonstrated, that the difficulty of getting the rear of the fleet brought into action, did arise from the nature of the attack itself, not from any abatement of spirit in the seamen, nor from any defect of the shipping on the one side, or even from any degree of superiority on the other.

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III. ADMIRAL ARBUTHNOT'S ENGAGEMENT WITH THE FRENCH FLEET OFF THE MOUTH OF THE CHESAPEAK, THE 16TH MARCH 1781.

EXTRACT OF A LETTER FROM ADMIRAL ARBUTHNOT, 20TH MARCH 1781,

- 74. On the 16th, at fix A. M. the Iris made the fignal for discovering five strange sail, to the N. N. E. and soon afterwards
- ' hailed, that they were large ships steering for the Capes of Vir-
- ' ginia, and supposed to be distant about three miles. I imme-
- ' diately concluded it must be the enemy I was in search of, and
- * accordingly prepared the fquadron for battle, by forming the
- ' line a-head a cable's length afunder, on a wind which was then
- ' fresh, and proceeding towards them with a press of fail. At
- ' this time Cape Henry bore S. W. by W. distant about 14
- ' leagues, wind at West; the French bearing from us, N. N. E.
- ' the weather to hazy, that the length of the British line could
- fearcely be differred.
- At, a quarter of an hour after eight A. M. the wind vecred to
- ' N. W. by 'W. and foon after to N. by W. which gave the enemy
- ' the advantage of the weather-gage. About this time feveral of
- ' the enemy's ships were discovered to windward, manœuvring
- to form their line.

- 'At twenty-five minutes after eight, the Guadaloupe ranged up under our lee, bringing the fame intelligence with that altready given by the Iris, and was ordered to make fail, and entered to keep fight of the enemy.
- At thirty-five minutes after eight, I directed the Iris, by figual, to make fail a-head, and keep fight of the enemy, as the haze appeared to thicken. The British line was by this time completely formed, and close hauled on the larboard tack.
- At twenty minutes after nine, the headmost of the French thips tacked, as did the rest in succession, and formed the line on the starboard tack.
- At thirty-five minutes after nine, the weather being very agually, I formed the line a-head, at two cables length afunder.
- At a quarter of an hour after ten, I made the figual for the appeadron to tack, the headmost and weathermost first, and gain the wind of the enemy.
- "5. 'At a quarter of an hour after eleven, the headmost of the brench line tacked; but one of them having missed stays, the rest wore, and formed the line on the larboard tack.
- At forty minutes after cleven, I re-formed my line, at one cable's length afunder.

- At twelve o'clock, there being a prospect of the van of my line reaching the enemy, the whole of my line tacked by fig.
- ' nal, the van first, and the leading ship continued to lead on the
- other tack.
- At one o'clock, the French fquadron having completed their form in a line a-head, confifting of eight two deckers, bore
- 6 E. by S. the British line close hauled, steering E. S. E. wind at
- N. E.
- 76. At half an hour after one o'clock, the enemy being very apprehentive of the danger and inconvenience of engaging to windward, from the high fea that was running, and fqually weather, wore, and formed their line to leeward of the British line.
- 77. At two o'clock, the van of my squadron wore in the line; and, in a few minutes, the Robust, which led the sleet, and afterwards behaved in the most gallant manner, was warmly engaged with the van of the enemy. The ships in the van and entre of the line were all engaged by half an hour past two, and by three o'clock the French line was broke; their ships began soon after to wear, and to form their line again, with their heads to the South-east into the ocean.
- 78. 'At twenty minutes after three, I wore, and flood after them.' I was forry to observe the Robust, Prudent, and Europe, which were the beadmost ships, and received the whole of the county's

' lie l, and the London's main-top full yard being carried away, the two first unmanageable, lying with their heads from the enemy, as to be incapable of pursuit, and of rendering the advantage we had gained decilive.

79. 'At half an hour after four, the haze came on for very thick, as entirely to intercept the enemy from my view. The Medea poined me foon after, which I directed to follow, and observe the route of the enemy, while I proceeded with the squadron to the Chesapeak, in the hope of intercepting them, should they attempt to get in there.'

THE DESCRIPTION OF ADMIRAL ARBUTHNOT'S BATTLE OFF THE CHESAPEAR, 16TH MARCH 1781 *.

1., (Plate VIII. fig. 1.) The French fleet to windward, formed in line of battles on the larboard tack.

B, The British sleet to leeward, on the same tack, at twelve o'clock, and in hopes that their van would be able to reach the enemy, (No. 75.)

* British, eight ships and three frigates. French, eight ships and four frigates, F.

- F, (Fig. 2.) The French fleet now formed to leeward, at half after one, having quitted their windward position G, from an apprehension of the danger and inconvenience there would be in engaging to windward, from the high sea that was running, and the squally weather. (No. 76.)
 - B, The British fleet in chase, keeping their wind.
- F, (Fig. 3.) The French extended in line of battle, and receiving the attack, by firing upon the van of the British, as they came down before the wind.
- B, The British, who had wore at two o'clock, lest their position at C; are now attempting to stop the van, and steering every ship upon his opposite of the enemy.

Mr Arbuthnot fays, 'At two o'clock, the van of my fquadron were in the line; and, in a few minutes, the Robust, which led the sleet, and afterwards behaved in a most gallant manner, was warmly engaged with the van of the enemy.'

(Fig. 4.) The ships in the van A, and the centre B, of the line, were all engaged by half past two, and by three o'clock the French line was broke at FF.

Their ships began soon after to wear, and form their line again, with their heads to the south-east, into the ocean, as at G, Fig. 4. (No. 77.)

80. (Fig. 5.). 'At twenty minutes after three, I were and flood after them, (as at B, Fig. 5.); but was foon forry to observe the K Robust.

Robust, Prudent, and Europe, which had been the headmost, now the sternmost at A, as they had received the whole of the enemy's fire at the rigging, as they bore down, so entirely disabled, as was also the London, who had her top-sail yard carried away, that we were incapable of pursuit. '(No. 78.)

OBSERVATIONS.

SI. Mr Arbuthnor, by this battle, having defeated this first attempt of the enemy to acquire a footing in the Chefapeak; and having relieved us of our apprehenfious for the little army under General Arnold, that is, having had the fingular merit of accomplithing, in the fullest manner, the principal object of his deffination, it is much to be regretted, that an equal degree of prairie is not due to the action itself. For, by this mode of atraci. (Section IV.), as well, as by the attempt to flop the van of the enemy, his headmost ships were so disabled, that they could milder get into close action, nor purfue; whereas, on the other , hand, the enemy being unburt, and perceiving the diforder of the British flect, that they were disabled from following them, -to avoid the effects of their fire, made fail, wore, and formed a new line of battle to leeward, (No. 77.), where they were prepared to receive a new attack, should the British Admiral attempt

52. This engagement, however, is diffinguished from the two former, by a manœuvre peculiar to itself; and must be of some weight

weight in support of what has been advanced with refuest to For, quitting the windward fituation, which they French ideas. were possessed of, and assuming their post to lecward, as they did, (No. 76.), they plainly showed, that they were consident in their fuperior knowledge in naval tactic; that they relied on our want of penetration; and, getting to leeward, that they trufted our irrefiftible defire would harry us on to make the cuflomary at tack, (Introd. page 20.) though at a difadvantage almost beyond the power of calculation; by which, the British Admiral, by ving his thips crippled in the first onfet, never after was able to close with, follow up, or even detain one single thip of them for one moment. (No. 37.)

IV. ADMIRAL GRAVES'S ENGAGEMENT WITH THE FRENCH FLELT OFF THE MOUTH OF THE CHESAPEAK, THE 5TH OF SEPTEMBER 1781.

NEIRACL OF A LETTER IROM VICE-ADMIRAL GRAVES, AUGUST BIST 1781, OFF SANDYHOOK.

5 31st of August, to the southward.

^{*} I beg you will be pleafed to acquaint my Lords Com-" millioners of the Admiralty, that the moment the wind ferved to carry the thips over the bar, which was buoyed for the pur-

^{*} pofe, the fquadron came out; and Sir Samuel Hood getting

s under fall at the fame time, the fleet proceeded together, on the

' The cruifers which I had placed before the Delaware could e give me no certain information, and the cruifers, off the Chefa-' peak had not joined. The wind being rather favourable, we ' approached the Chefapeak the morning of the 5th of September, when the advanced ship made the figual of a fleet. We 6 foon discovered a number of great ships at anchor, which seemed to be extended across the entrance of the Chesapeak, from ' Cape Henry to the middle ground: They had a frigate cruifing ' off the Cape, which flood in and joined them; and, as we ap-' proached, the whole fleet got under fail, and ftretched out to ' fea, with the wind at N. N. E. As we drew nearer, I formed ' the line first a-head, and then in such a manner as to bring his " Majefly's fleet nearly parallel to the line of approach of the e-· nemy; and, when I found that our van was advanced as far as ' the thoal of the middle ground would admit of, I wore the fleet, and brought them upon the fame tack with the enemy, and ' nearly parallel-to them, though we were by no means extended with their rear. So foon as I judged that our van would be ' able to operate, I made the fignal to bear away and approach, and, foon after, to engage the enemy close. Somewhat after tion, the action began amongst the headmost ships, pretty close, and foon became general, as far as the fecond ship from the e centre, towards the rear. The van of the enemy bore away, to renable the centre to support them, or they would have been cut up. The action did not emirely ceafe till a little after fun-fet. though at a confiderable distance; for the centre of the enemy recratinged to bear up as it advanced; and, at that moment, feemed

Buttles of 15

- ' feemed to have little more in view, than to shelter their own van, as it went away before the wind.
- 'His Majesty's fleet consisted of nineteen sail of the line; that of the French formed twenty-sour sail in their line. After night, I sent the frigates to the van and rear, to push forward the line, and keep it extended with the enemy, with a sull intention to renew the engagement in the morning; but, when the frigate Fortune returned from the van, I was informed, that several of the ships had suffered so much, that they were in no condition to renew the action until they had secured their masts: we, however, kept well extended with the enemy all night.'
- 'We continued all day, the 6th, in fight of each other, repairing our damages. Rear-Admiral Drake shifted his slag into
 the Alcide, until the Princess had got up another main-top mast.
 The Shrewsbury, whose Captain lost a leg, and had the first
 Lieutenant killed, was obliged to reef both top-masts, shifted
 her top-sail yards, and had sustained very great damage. I ordered Captain Colpoys of the Orpheus to take command of her,
 and put her into a state for action.
- The Intrepid had both top-fail yards that down, her top-masts in great danger of falling, and her lower masts and yards very much damaged, her Captain having behaved with the greatest gallantry to cover the Shrewsbury. The Montague was in great danger

- ' danger of losing her masts; the Terrible fo leaky as to keep all her pumps going; and the Ajax also very leaky.
- In the prefent flate of the fleet, and being five fail of the line below in number than the enemy, and they having advanced very much in the wind upon us during the day, I determined to tack to eight, to prevent being drawn too far from the Chefapeak, and to fland to the northward.

THE DESCRIPTION OF ADMIRAL CRAVES'S ENGAGEMENT OUT THE CHESAPEAK, THE 5TH OF SEPTEMBER 1781.

- 84. (Plate IX. fig. 1.) The French fleet at anchor, and extended across the entrance of the Chesapeak, from Cape Henry to the middle ground, who, as soon as they perceived the British sleet approaching, got under fail, and stretched out to sea upon the halicard tack, as at C.
- ", "The British sleet advancing to the middle ground, but not till after the French had left it, formed in a line nearly parallel to that of the French at G.
- B, (15, 2.) The British fleet, after having advanced as far us the first upon the middle ground, as per course A, wore; and having

pro 7 f last s, and a fire-ship. French, 24 ships. Frigates.

having stood after the enemy, are now upon the larboard tack, extended in line of battle a-head, and almost a-breast of them.

- (Fig. 3.) Mr Graves fays: 'So foon as I judged that our 'van would be able to operate, I made the fignal to bear away, 'and approach as at B; and, foon after, to engage the enemy 'close.'
- (Fig. 4.) 'Somewhat after four, the action began among? 'the headmost ships, pretty close, and soon became general, as 'far as the second ship from the centre, towards the rear. The 'van of the enemy bore away,' as at G, 'to enable their centre to support them,' as at F, sig. 4. 'or they would have been cut up.
- 'The action did not entirely cease till after funset, though at a considerable distance; for the centre of the enemy continued to bear up as it advanced; and, that moment, seemed to have little more in view than to shelter their own van, as it went away before the wind.
- 85. Mr Graves might have added, that the French fleet, by making this movement, not only covered their own van as it went off, but they completely dilabled the van of the British, now separated and unsupported, and who had been before greatly hurt in their rigging, by making the attack as they did, insomuch, that hardly a ship was able to stand after, and prevent the enemy from forming a new line to leeward. (No. 16, to 37, inclusively.)

The fleets continued in fight of each other for five days fucceflively, and, at times, were very near; but ours had not speed enough, in so mutilated a state, to attack them, and they showed no inclination to renew the action; but they generally maintained the wind of us, yet did not make use of that power *.

87. The anxiety of the French to avoid a battle on this occafion, and their manœuvres in consequence, that they might not
again be prevented in their designs upon the Chesapeak, in which
they had been disappointed by Mr Arbuthnot, are so much
alike to what has already been described in two engagements, the
one with the unfortunate Admiral Byng, and the other with Admiral Byron off Grenada, that the observations then made being
equally applicable in this case, it will be unnecessary to repeat
them.

V.

*Certain French Officers on board their own fleet, it is faid, having received an invitation from the Admiral to dine with him, on feeing the British squadron approaching the Chesapeak in the morning, and dreading they might be attacked before they could be prepared for action, pleasantly said to a gentleman, then prisoner on board, We have received an invitation from the Admiral to dine with him to-day, but it must have been from your Admiral, not our own;—expressing, by this, an apprehension that they might lose their ship, and be taken prisoners.

V. SIR GEORGE BRIDGES-RODNEY'S ENGAGEMENT WITH THE PRENCH FLEET OFF THE WEST END OF MARTINICO, APRIL 17. 1780.

EXTRACT OF A LETTER FROM ADMIRAL SIR GEORGE BRIDGES-RODNEY, 26/111
APRIL 1780, OFF FORT-ROYAL, MARTINICO.

88. 'In this fituation both fleets remained till the 15th inftant, when the enemy, with their whole force, put to sea in the middle of the night; immediate notice of which being given me, I followed them; and, having looked into Fort-Royal Bay, and the road of St Pierre's, on the 16th we got sight of them, about eight leagues to leeward of the Pearl Rock. A general chase to the north-west followed; and, at five in the morning, we plainly discovered that they consisted of twenty-three sail of the line, one sifty gun ship, three frigates, a lugger, and a cutter. When night came on, I formed the sleet in a line of battle a-head, and ordered the Venus and Greyhound frigates to keep between his Majesty's and the enemy's sleets, to watch their motions, which was admirably well attended to by that good and veteran officer Captain Fergusion.

- 'The manœuvres the enemy made, during the night, indicated a wish to avoid battle, which I was determined they should not, and therefore counteracted all their motions.
- ' At day-light, in the morning of the 17th, we faw the enemy ' distinctly beginning to form the line a-head. I made the figual • for the line a-head, at two cables length distance. At forty-five ' minutes after fix, I gave notice, by public fignal, that my in-' tention was to attack the enemy's rear with my whole force: ' which fignal was answered by every ship in the fleet. ' A. M. perceiving the fleet too much extended, I made the fig-* nal for the line of battle at one cable's length afunder only. At thirty minutes after eight A. M. I made a fignal for a line ' of battle a-breaft, each ship bearing from the other N. by W. ' and S. by E. and bore down upon the enemy. This fignal was ' penetrated by them, who discovered my intention, wore, and ' formed a line of battle on the other tack; I immediately made ' the figual to haul the wind, and form the line of battle a-head. ' At nine A. M. made the figual for the line of battle a-head, at two cables length, on the larboard tack.
- 'The different movements of the enemy obliged me to be very attentive, and watch every opportunity that offered of attacking them to advantage.
- The manœuvres made by his Majesty's fleet will appear to.
 their Lordships by the minutes of the signals made before and during the action. At eleven A. M. I made the signal to prepare.

* pare for battle; to convince the whole fleet I was determined to bring the enemy to an engagement. At fifty minutes after cleven A M. I made the fignal for every flup to bear down, and fleer for ber opposite in the enemy's line, agreeably to the 21st article of the additional Fighting Instructions. At fifty-five minutes after eleven A .M I made the fignal for battle, a few minutes after, the figual that it was my intention to engage close, and, of ' course, the Admiral's ship to be the example. A few minutes before one P M one of the headmost ships began the action At one P. M, the Sandwich in the centre, after having received ' feveral fires from the enemy, began to engage. Perceiving feveral of our ships engaging at a distance, I repeated the signal for a close action. The action, in the centre, continued till fifteen minutes after four P. M., when Montieur Guichen in the * Couronne, in which they had mounted ninety guns, the Tri-' umphant and Fendant, after engaging the Sandwich for an hour ' and a half, bore away. The superiority of the fire from the Sandwich, and the gallant behavious of her officers and men, enabled her to fuftain fo unequal a combat, though, before at-' tacked by them, fhe had beat three ships out of their line of battle, ' had entirely broke it, and was to leeward of the wake of the ' French Admiral.

At the conclusion of the battle, the enemy might be faid to be completely beat; but such was the distance of the van and rear from the centre, and the crippled condition of several thips, particularly the Sandwich, who, for twenty-sour hours, was with difficulty kept above water, that it was impossible to pursue

' purious them that night without the greatest disideanth e.
' However, every endeavour was used to put the fleet in order and I have the pleasure to acquaint their Lordships, that, one the 20th, we again got light of the enemy's fleet, and, for three successive days, pursued them, but without effect, they using 'every endeavour, possible to avoid a second action, and endeavoured to push for Fort-Royal, Martinica: We cut them off 'To prevent the risk of another action, they took shelter under Guadaloupe.

As I found it was in vain to follow them with his Majesty's fleet in the condition they were in; and every motion of the enemy indicating their intention of getting into Fort-Royal Bay, Martinico, where alone they could repair their shattered fleet, I thought the only chance we had of bringing them again to action, was to be off Fort-Royal before them, where the fleet under my command now is, in daily expectation of their arrival. I have despatched frigates to windward and to leeward of every island, to give me notice of their approach.

THE DESCRIPTION OF SIN OF CE BRIDGES-RODNIY'S BAT-TLE OIF THE WEST END OF MARENICO, THE 17TH OF APRIL 1780 *.

- 89. F, (Plate X. figs 1.) The French fleet to leewing, at daylight, diffinctly feen forming the line a head, and upon the flarboard tack.
- B, The British fleet to windward, thirty minutes after eight, formed in line of battle a break, are wind down on the enemy, and after Sir George had given home, by public signal, that his intention was to attack the enemy's rear with his whole force, which signal was answered by every ship in his fleet. (Vid. a.)
- F, (fig. 2.) The French fleet in the act of wearing, and forming upon the larboard tack; having penetrated Sir George's fignal. (Vid. b.)

B, The British fleet still in line a-breast; bearing down.

B, (fig. 3.) The British fleet formed in line of battle a-head, at two cables length affinder, on the larboard tack, the figual to haul the wind being previously made at nine o'clock.

F. The enemy lying-to to receive the attack.

B,

^{*} British, 20 ships of the line, 1 fifty, and 4 frigates.

* French, 25 ships & frigates.

B, (fig. 4.) The British sleet, sifty minutes after eleven o'clock, every one of which bearing down, and steering for her opposite in the enemy's line, agreeable to the 21st article of the additional Fighting Instructions, according to the signal made for that purpose, (vid. c.) and after Sir George's signal to prepare for battle, which was intended to convince the whole sleet that he was determined to bring the enemy to an engagement. In sive minutes after, the signal for battle was given; and, in a few minutes after this last, the signal that it was his intention to engage close, and, of course, the Admiral's ship, B, to be the example. (Vid. d.)

A, The British steet extended in line of battle. A few minutes before one o'clock, one of the headmost ships at D began the action, and at one, the Sandwich, the Admiral's own ship, after having received several sires from the enemy, began to engage at C.

F, The enemy lying-to as before.

(Fig. 3.) The action continued above three hours, when Monf. Guichen in the Couronne, mounting ninety guns, the Triumphant, and the Fendant, after engaging the Sandwich, B, for an hour and a half, bore away, as at F, the superior fire from the Sandwich enabling her to sustain so unequal a combat, though, before she was attacked by them, she had beat three ships, G, out of the line of battle, had entirely broke it, and was to lee, ward of the wake of the French Admiral. At the conclusion of the battle, the enemy might be said to be completely beat. But such was the distance of the van D, and rear A B, from the centre, the

and

and the empled condition of feveral flups, particularly the Sandwich, that we could not purfue the enemy.

- Though Sir George had the merit of great personal courage upon this occasion, yet, it must be admitted, that the attack, as put in execution, being the same, was, of course, attended with the like want of effect, which, unfortunately, has uniformly marked all our other fea-battles. For, notwithstanding all that hasbeen faid, he could not prevent the wary Frenchman from fliding away from him almost unburt, (in like manner as described in No. 23. 24. and Plate IV. fig. 1. and 2.).; while he got his ships fo greatly disabled that he could not follow up, or even detain a fingle ship of the enemy for one moment. It is in vain, therefore, to lay the blame of this miscarriage upon the supposed distance of the van and rear; for, if both had been completely closed with the centre, from our hypothesis, as well as from the examples given, we have a right to conclude, that the van and rear of the French fleet might, as ufual, have flid away with the fame eafe as the centre had done (vid. e), as foon as they perceived themselves in any danger of being hurt.
- 91. Sir George has first told us, that he had given notice, by public signal, that his intention was to attack the enemy's rear with his whole force (vid. 4); and then he afterwards says, at eleven o'clock A. M. I made the signal for every ship to bear down, and steer for her opposite in the enemy's line. (Vid. c.) Why did Sir George change his resolution?

- 92. Had he carried the intention of his first signal into execution *, it is more than probable that he might have taken or destroyed six or eight ships at least of the enemy's rear †; but, by carrying down his whole line, every ship steering upon his opposite, according to the intention of the last signal; from the experience of former engagements, he might have been assured of getting every ship so disabled by the raking sire of the enemy, as to be incapable of any suture pursuit.
- That the Sandwich, the Admiral's own ship, in particular, was crippled, is not suprising; for, after having beat three other ships of the enemy, she had obliged the Couronue, the Triumphant, and the Fendant, to bear away and withdraw from battle. But, in the manœuvre of these six ships of the enemy quitting the line, as they did on this occasion, it is impossible not to perceive a resemblance to what has been before explained in the case of the alternate ships, &c. (No. 24. Plate IV. sig. 1. and 2.); or in the case of the Graston, the Cornwal, and the Lion, in Mr Bron's action, where, with similar gallantry, getting to leeward to cover their stiends, they were constrained to sustain the sire of the many's whole line, as they passed them to leeward.

If a ing now given five examples where the British, in display of their innate delire of making the attack, having always attain-

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If he been fuel, that the French Admiral, upon perceiving the approach of the Builli feet, according to the first intention, broke out with an exclamation, That I ver togue of his thirts were gone?

^{1 17.} a l'Iode of Attack proposed.

ed the windward position, and where they have made this attack in an extended line, where each thip was steered down upon her opposite of the enemy, and where an idea has generally prevailed, of making the attack upon the enemy's headmost ships, in preference to an attack upon the sternmost; the consequence of which has been, that the ships making such attack could not be supported but with dissiculty: and likewise, where the French, on the other hand, as earnestly courting and attaining the leeward situation, have always disabled the British fleet: We now proceed to give other examples, where the French, by their anxiety in keeping to windward, have clearly shown their dislike, as well of making the attack themselves, as of suffering the British short to approach them, while in this windward situation.

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SECTION II.

- OF ENGAGEMENTS WHERE THE FRENCH, BY KFEPING THEIR FLEETS TO WINDWARD, HAVE CLEARLY SHOWN THEIR DISTANCE, AS WELL OF MAKING THE ATTACK THEM-SELVES, AS OF SUFFERING THE BRITISH FLEET TO APPROACH THEM WHILE IN THIS WINDWARD SITUATION.
- 1. That of Sir Groude Bridges-Rodney, to windward of Martinico, May 15, 1780.
- 2 SIR GEORGE BRIDGES-RODNEY, near the fame place, May 19, 1780.
- 3. SIR SAMUEL HOOD, off Fort-Royal, Martinico, April 29, 1781.
 - 4. ADMIRAL KEPPEL, off Ufhant, July 27, 1778.
- THE CHARGE BRIDGES RODNEY'S RENCOUNTER WITH THE TRENCH FLEET, TO WINDWARD OF MARTINGO, MAY 15, 1750.
 - *XTRACT OF A LETTER FROM ADMIRAL SIR GFORCE BRIDGES-RODNEY,
 MAY 31.1780, DATED CARLISLE BAY.
- 94. ' Since my letter of the 26th of April from Fort-Royal Bay, fent express by the Pegafus, I must desire you will please

to acquaint their Lordships, that, after greatly alarming the sifland of Martinico, whose inhabitants had been made to be-* lieve his Majefty's fleet had been defeated, but were foon con-' vinced to the contrary, by its appearance bet re their port, " where it commued till the condition of many of the thips ma-' der my command, and the lee currents, rendered it necessary * for the fleet to anchor in Chocque Bay, St Lucie, in order to ' put the wounded and fick men on fhore, and to water and re-* lit the fleet; frigates having been detached both to windward fignd to lectuard of every ifland, in order to gain intelligence of * the motions of the enemy, and timely notice of their appreach towards Martinico, the only place they could refit at in thefe 6 feas. Having landed the wounded and fick men, watered and * relitted the fleet; on the 6th of May, upon receiving intoling rigence of the enemy's approach to windward of Martinico, a put to fea with nineteen fail of the line, two hity gam thing. · and feveral frigates.

- From the 6th to the 10th of May, the fleet co ditumning to windward between Martinico and St Lucie, when we got fight of the French fleet, about three leagues to windward of us, Point Saline on Martinico then bearing N. N. É. five leagues, Captain Affleck, in the Triumph, joining me the fame day.
- The enemy's fleet confifted of twenty-three fail of the line, feven frigates, two floops, a cutter, and a lugger. Nothing could induce them to risk a general action, though it was in their M 2

- * power daily: They made, at different times, motions which
- " indicated a defire of engaging; but their refolution failed them
- " when they drew near; and, as they failed far Letter than his
- " Majofty's fleet, they, with cafe, could gain what distance they
- * pleafod to windward.
- As they were fenfible of their advantage in failing, it embolthem to run greater risks, and approach nearer to his
- " Majetty's thips than they would otherwife have done; and, for
- s feveral days, about two in the afternoon, they bore down in a
- * line of battle abreaft, and brought to the wind a little more

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- than random-thot diflance.
- As I watched every opportunity of gaining the wind, and sorcing them to battle, the enemy, on my ordering the fleet to make a great deal of fail, on the 15th, upon a wind, had the vanity to think we were retiring, and with a prefs of fail approach I us much nearer than ufual. I fuffered them to enjoy the deception, and their van thip to approach abreaft of my courte, when, by a lucky change of wind, perceiving I could wrather the enemy, I made the figual for the third in command, who then led the van, to tack with his fquadron, and gain the wind of the enemy. The enemy's fleet inflantly wore, and fled with a crowd of fail.
- This Majerty's fleet, by this manœuvre, had gained the whal, and would have forced the enemy to battle, had it not at ourse changed fix points, when near the enemy, and enabled them

- them to recover that advantage. However, it did not enable
- them to weather his Majesty's sleet so much, but the van, led
- by that good and gallant officer, Captain Bower, about fever
- in the evening, reached their centre, and was followed by
- * Rear-Admiral Rowley's fquadron, who then led the van; the
- centre and rear of his Majesty's flect sollowing in order.
- 'As the enemy were under a press of fail, none but the varof his Majesty's fleet coul come in for any part of the action.
- ' without wasting his Majesty's powder and thot. The enemy
- wantonly expended a deal of theirs, at fuch a diffance as to have
- ' no effect.
- 'The Albion, Captain Bower, and the Conqueror, Rear-Ad-
- " miral Rowley, were the ships that suffered most in this ren-
- counter. But I am fure, from the flackness of their fire, in
- ' comparison to that of the van of his Majesty's sleet, the ene-
- ' my's rear must have suffered very considerably.
- 'The enemy kept an awful distance till the 19th instant,
- when I was in hopes that I should have weathered them, but
- ' had the mortification to be disappointed in these hopes; how-
- ' ever, as they were convinced their rear could not escape assion,
- ' hoy feemed to have taken a resolution of risking a general
- one; and, when their van had weathered us, they bore away
- ' along our line to windward, and began a heavy cannonade,
- but at fuch a distance as to do little or no execution; however
- * their rear could not escape being closely attacked by the thips

- * of the van, then led by Commodore Hornam; and with plea-
- ' fure I can fay, that the fire of his Majesty's ships was far supe-
- ' rior to that of the enemy, who mult have received great da-
- ' mage by the rencounter.
- * The Albion and Conqueror fuffered much in this laft action, and feveral other thips received confiderable damage; a lift of which, as likewife of the killed and wounded, I have the homour to enclose.
- The purfuit of the enemy had led us forty leagues directly to windward of Martinico; and, as the enemy had flood to the northward with all the fail they could peffibly prefs, and were out of fight the 21ft inflant, the condition of his Majefty's thips being fuch as not to allow a longer purfuit, I fent the Conqueror, Cornwal, and Boyne, to St Lucia, and flood with the remainder of his Majefty's fhips towards Barbadoes, in order to put the fick and wounded on thore, and repair the figuration.
- I. DESCRIPTION OF SER GEORGE BRIDGES-RODNEY'S REN-COUNTER WITH THE FRENCH PLEET, TO WINDWARD OF MARTINICO, THE 15. MAY 1780, TAKEN FROM THE ABOVE LETTER OF 31. MAY 1780.
- 95. B, (Plate XI. fig. 1.) The British fleet extended in line of battle to iceward, and endeavouring to get to windward.

RODNEY'S ENGAGEMENT

- I, The French fleet, for feveral days, about the hom of two in the afternoon, bore down in a line of Laule abreath (as at I) and brought to the wind a little more than random-thot dislances (as at G).
- (Fig. 2.) The French, upon the 15th May, having languages that the British were retiring, came down with a press of fall, and approached nearer than usual, (as at F, first position).
 - B, The British fleet in first polition.

SIR GEORGE fays, 'I fuffered them to enjoy the deception, and their van thips to approach abreast of my centre at B.

- when, by a lucky change of wind (vid. 1), perceiving I could
- ' weather the enemy, I made the figual for the van to tack, as as
- 6 C, and gain the wind of the enemy. The enemy's fleet in
- * flantly wore, as at GG; and fled with a crowd of fail on the
- 4 contrary tack, (as at H.)
- B, (Fig. 3.) The British fleet having now gained the wind, (See I), would have forced the enemy to battle, had not the wind at once changed fix points to K, when seer the enemy, which enabled them to recover the weather-gage, (as in Fig. 4.)
- F, (Fig. 4.) The French recovering the weather-gage, the wind having changed from I back to K.
- G, The former line of course of the French sleet when the wind was at I.

B, The British van having now lost the weather-gage, by the wind changing from I to K, and endeavouring to reach the centre of the French line.

C. The line of the British course before the wind changed.

The van, led by Captain Bower, about fetwo in the evening, reached the enemy's centre, and was followed by Reas-Admiral Rowley's squadron, who then led the van, the centre and rear of his Majesty's sleet following in order. As the enemy were under a press of fail, none but the van of the Printh sect could come in for any part of the engagement, without wasting powder and thot; the enemy wantonly expending to deal of theirs, at such a distance as to have no effect.

H. DESCRIPTION OF SIR GEORGE BRIDGES-RODNEY'S REN-LUNDER WITH THE FRENCH FLEET, TO WINDWARD OF MARTINICO, MAY 19, 1780, TAKEN FROM HIS LETTER OF MAY 31, 1780.

May, again diferentiated in gaining the wind.

F. The van of the Freiich fleet weathering that of the British.

The " enemy kept an awful distance till the 19th inst. (says the forest), when I was again in hopes that I should have wear

[.] See Fig. r. B, Briffft. F, French-

- * thered them; but I had the in wiferation to be disappointed in
- * thefe hopes. However, as they were convinced their rear could
- * not escape action, they seemed to have taken a resolution of ritk-
- sing a general one; and, when their van had weathered us, they
- bore away, along our line, to windward, (as in 17g. 2.)
- F, (Fig. 2.) The French van having weathered the British, bore away, along the line, to windward, and began a heavy curnomade, but at such a distance as to do little or no execution; however, their rear G could not escape being closely attacked by the ships of the British van B, led by Commodore HOTHAM. Si. Chorge says, 'It is with pleasure I can say, that the sire signs the British thips was far superior to that of the enemy, who must have received great damage by the rencounter.'
- 97. Without farther observation at present on the nature of the manœuvring which took place in either of these rencounters, it may be proper to remark, that the French, in both, contrary to their usual practice, have kept a windward situation. However, it will be evident, from Sir George's letter, that as it was their carnell defire to get back to Fort-Royal without being farther lunt, so they neglected to manœuvre to accomplish their object; and the seints which they made of approaching the British fleet for four or five days in succession, could be intended only as an attempt to throw the Admiral off his guard: Therefore, as neither of these affi incan be considered as any thing more than accidental rencounters, our general observations will remain with the same force as before, and will confirm us in the belief, that the French will no

N.

ver be induced, in prejudice of their object in view, either to make or fultain an attack, if it can possibly be avoided, whether that object shall be getting back to a port, an attack upon a particular place, the faving of their fleet in general, or the preferving of it entire to the conclusion of the war.

10. SIR SAMUEL HOOD'S ENGAGEMENT WITH THE FRENCH FLEET OFF FORT-ROYAL, MARTINICO, 29. APRIL 1781.

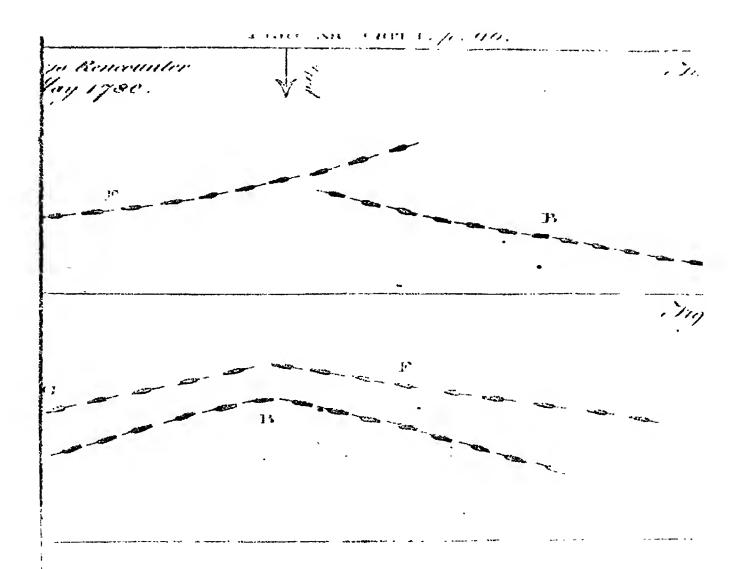
MAY A. 1781.

198. Saw nothing of the enemy or Amazon at day-light. A little before nine the Amazon joined me, the enemy then in fight, coming down between Point Salines and the Diamond Rock; made the fignal for a close line, and to prepare for action. At nine the enemy appeared, forming the line of bottle. Twenty minutes past nine, the Prince William joined me from Grofs-lifet Bay; and, as Islent for her but the night before, Guytain Douglas's exertion must have been great, and does him much credit, to be with me so soon, having the greatest past of his crew to collect in the night. Twenty-seven minutes past nine, hersted our colours, as did the French Admiral and his fiect. At fifteen minutes past ten, made the Shrewsbury's figual to alt r her course to windward, she being the leading thir; but soon perceived the wind had shifted, and that she was

as

* as close to the wind as the could lye. At thirty-five minuted f past ten, tacked the squadron altogether, the van of the energy being almost abreast of our centre, and at eleven began to fire, which I took no notice of. At this time the thips in Fort-6 Royal Bay flipped their cables, and got under fail. At twenty ' minutes past eleven, I tacked the squadron altogether, and re-' peated the figual for a close order of battle. At twenty-five f minutes past eleven, finding the enemy's that to go over us, hoisted the figual for engaging, and, in patting our van and the ' enemy's rear, exchanged fome broadfides. At forty minutes ' after eleven, the enemy tacked. At forty-five minutes after ele-' ven, made the figual for the rear to close the centre. At fifty-' five minutes past eleven, finding it impossible to get up to the enemy's fleet, I invited it to come to me, by bringing the ' fquadron to under their top-fails. At half past twelve, the ' French Admiral, in the Bretagne, began to fire at the Barfleur, * which was immediately returned, and the action became gene-' ral, but at too great a distance; and, I believe, never was more bounder and flot thrown away in one day before: but it was ' with Monfieur de Grasse the option of distance lay: it was not ' possible for me to go nearer. At one, I made the figual for the ' van to fill, the French having filled, and drawn ahead. At fe-' ventcen minutes past one, made the Shrewfbury's fignal, the ' leading thip, to make more fail, and fet the top-gallant fails. ' At thirty-four minutes past one, repeated the figual for a clote ' line of battle; and finding not one of ten of the enemy's there reach us, I ceafed fuing; the enemy did the fame foon after, but their van and ours being fomewhat nearer, continued to engage: N 2

' engage; and, though the French Admiral had ten fail aftern of ' him, and three others to windward, he did not make a nearer approach. The merchant ships, at this time, were hauling in. ' close under the land, attended by two ships of two decks, sup-' posed to be armed en flute, and two frigates. At eighteen mi-' mites past three, the firing ceased between our van and that of the ' enemy; made the Shrewibury's fignal to make more full, in order to get to windward of the enemy. At forty-five minutes ' past four, sent Captain FINCH to the Shrewsbury to order Captain ROBERTSON to keep as near the wind, and carry all the fail ' he could, so as to preserve the line of battle, and to return back along the line, to acquaint every Captain of the fame. ' leven minutes past sive, the packet going to Antigua, which ' had kept company with the fquadron, came within hail, to ac-' quaint me, by order of Rear-Admiral DRAKE, that the Ruffel 4 was in great diffress, having received several shot between wind and water; that the water was over the platform of the magas zine, and gaining upon the pumps; and that three of their guns were difmounted. At eighteen minutes past fix, made the Russel's fignal to come within hail, which was answered; the enemy's fleet, confisting of twenty-four fail of the line, at this * time about four miles to windward. At half past seven, Captain SUTHERLAND of the Russel came on board, whom I ordered, ' if he could possibly, by exertion, keep the ship above water, to ' proceed to St Eustatius, 'or any other port he could make, and. ' acquaint Sir GEORGE RODNEY of all that passed. At forty-five ' minutes past nine, the Lizard came within hail, to inform me, by the defire of Captain SUTHERLAND, that he had bore away. On



* On Monday, April 30th, at day-light, found the van and ' centre of the foundion separated at some distance from the Barfleur and rear, owing to fluttering winds and calms m the ' night, which would not allow us to keep the Barffeur's head ' the right way, and she went round and round two or three ' times, while the other thips had light airs, and, finding the ' enemy's advanced ships Reering for our van, made all possible ' fail towards them, and threw out the fignal for a close line of ' battle, the enemy's line being a good deal extended and feat-At feven, the fquadron under my command being pretty well formed, the enemy's advanced thips hauled off. At ' fifty-fix minutes palt feven, made the figual for the rear to close ' the centre, as the enemy feemed to show a disposition to attack At thirty-five minutes past eight, having very light airs of wind, the fquadron was thrown nearly into a line abreaft; ' made the fignal for continuing in that form, left, by endea-' vouring to regain the line afread, it might become extended ' At eleven, made the fignal for a line alread, at two cables length ' alunder, the wind backing to the castward, favoured by form-' mg in that order, the better to receive the enemy, then about three miles to windward. At fourteen minutes past eleven, ' made the fignal for the rear to close the centre. At twelve, ' falling little wind again, and all the thips being thrown into a ' line abreaft, made a fignal for a line abreaft, to keep the ' fquadron as close together as possible.' At twenty-five minutes ' past twelve, the wind blowing steady at S. E., made the fignal for a general chafe to windward, with a defign of weathering * the enemy, which I should certainly have succeeded in, had the breeze

breeze continued; but the wind dying away at four, I found it ' impracticable to weather the enemy, and therefore made the figual for a line ahead; and having been informed that the Intrepid made to much water they could fearce keep her free, and that the Centaur was in the same state, owing to the number of fifthot between wind and water, and that her lower mails were very badly wounded, I judged it improper to dare the enemy to battle any longer; and therefore thought it my indispensable duty to bear up, and made the fignal for it at eight o'clock. 'At ten, brought to for the fquadron to close; at forty minutes s past ten made sail. At five A. M. the 1st instant, saw the ene-' my's fleet astern, about eight or nine miles distant. At twentyfix minutes past five, brought to for the Torbay and Poeca-' hunta to come up, which were then within reach of the enc-' my's guns; and the former received a good deal of damage in her masts and rigging. At forty-sive minutes past seven, the enemy ceafed firing upon the Torbay; fent the Amazon to tow the Poccahunta up. At eight, made the figual for a close line, bearing north and fouth of each other. At twenty minutes · past twelve, made the signal, and brought to upon the larboard tack, and made the figual for the flate and condition of the ' fquadron, the enemy bearing east, standing to the northward. 'Thirty-three minutes past three, made the fignal for a close line north and fouth. At four, the enemy tacked to the fouthward, and were standing that way at sun-set. In the evening, though it was almost calm, the main top-malt of the Intrepid fell to pieces over the fide. At leven, made fail to the northward, it being the opinion of the officers of the squadron acquainted

- ' quainted with this country, that it was the only way of getting
- ' to windward, as the currents run very flrong to lecward, to the
- ' fouthward of St Vincents.'

The conduct of the French, in this affair with SIR SAMUEL HOOD, is much the same with the two last of SIR GEORGE RODNEY'S. It is the third time where, contrary to their established practice, they have kept the wind. But, aware of the danger of this position, they approached so near the British only, as to be able to amuse them with a distant cannonade, while their merchant ships and transports might, with sufficient security, get into port.

Befides the above object, and the usual unremitting attention to the safety of their ships, they had to secure an easy access, by keeping to windward of their port; from which the armaments, for carrying into execution the great schemes they had then in contemplation, were to be sitted out. Of these, the sirst soon after unfortunately took place in the Chesapeak.

From this battle, we may judge of the propriety of cannonading, even where there may be the smallest chance of reaching an enemy. For, notwithstanding the great distance of the two sleets, and though the French were to windward; yet many of their shot took place in the hulls of our ships, so far below the water-line, that three of them could, with disficulty, be kept analysis.

IV. ADMIRAL KEPPEL'S BATTLE OFF USHANT, JULY 27. 1778. *

99. B, (Plate XIII. Fig. 1.) The British sleet, at six o'clock in the morning, standing upon the larboard tack, and lying up about W. by N.; that is, with their heads northwards, and ranging between the fleet of the enemy and their port of Brest.

F, 'The French fleet to windward, and nearly well, having kept that fituation for four days before, as mentioned in Mr Keppel's letter; they had their heads also to the north.

A, At ten o'clock, the whole British sleet tacked together, and stood for the enemy, after having run through the dotted lines, their supposed course, and now upon the starboard tack, with their heads southward.

C, The British fleet advancing in as regular a line as the purfeit would admit; and the van having neared the enemy, a firing began between the headmost ships of both sleets about cleven o'clock.

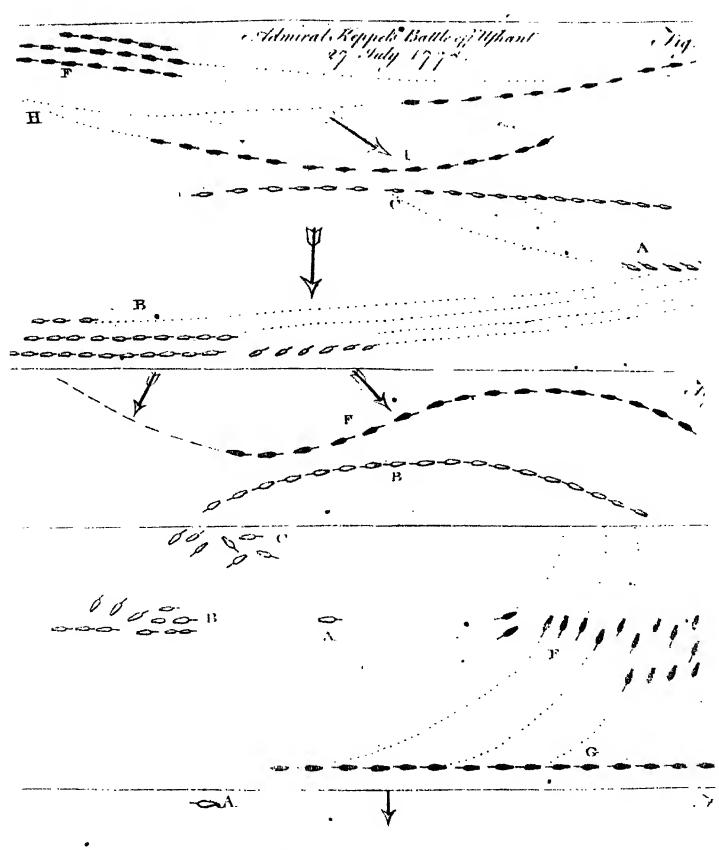
While the British fleet was going through these movements, a squall of wind, attended with rain, arose, which prevented either fleet from seeing each other's motions; during which time, that is, from six o'clock, till half an hour after ten, the French had sirst stretched away north, on the larboard tack, to G, where they tacked.

^{*} British, 20 ships, 6 frigates.

H, here they extempted a sccond tack to the south, as far is stays, from the effect of the squall, they were altogether, and were got again with their heids to the north, when the weather cleared up, and discovered the British fleet hard upon them but on convery tacks. The wind veering a little about to the south in this critical moment, favoured the fleet of the French, by an abiling them to lye better up, while, of course, the British fell of

- near as they choic, each hip, as foon as it came within gun-shot, bore away, and run along the line of the cnemy, firing at each thip in passing, the whole sleet following the same example
- 101 F, Shows the course of the French, wishing to avoid the battle, and taking the advantage of the wind, now more southerly, by which means the rear of the British was able to fetch the centre of their fleet only, while, at the same time, the French van was now far to windward, and preparing to wear and run to keeward of the British fleet.
- ther with other ships of his division, after having pisted the rear of the French, in the act of wearing, to return to the support of their rear, or to give cliase to the enemy
- having fitched, and given and received a broadfide with the French Admiral, and other ships, as she passed along the line.

- 104 F The French fleet, after having work, and running down before the wind, which, at that time, would give them the appearance of being in ditorder, when teen from SIR HUGH PAILISTES flup, the Formidable
- upon the starboard tack, with their heads to the fouthward.
- 106 B, (11g 4.) Admiral Karris now to windward of the I rench fleet, between four and live clock his the afternoon, on the flatboard tack, with his think and in hopes that the enemy would be to had try their fortune in I title with him next morning.
 - A, The supposed invasion of the Formydable.
- 10 F, The brench flest in order of battle, to leeward, also on the standard tack, lying to to receive the British Admiral, should he think sit to make an attack.
- poop to amuse the British Admiral, while the rest of the sleet should slip into port before morning.
- firingled hard for four or five days to get up with mens; at last, the brench, willing to give up the contest, passed to keepfard, and formed their line of battle in their favourite position. It in the fore-mentioned case of Mr Arruthnor off the Chemical but, in accomplishing this provement, it mult be evident former examples, that they could have no units and



tion to come within cannon-shot of the British sleet, when passing on contrary tacks, as they were forced to do, by the effect of a dark squall of wind and rain, and which also prevented them from seeing where they were, till close upon the British sleet.

MR KEPPLL, in his letter to the Admiralty, having given his reasons why he did not attack the French fleet in the afternoon, it will be improper here to make any further remark upon it.

OTHER OBSERVATIONS. *

Fig. 1.) with hoffile intention, contending to get to windward, the

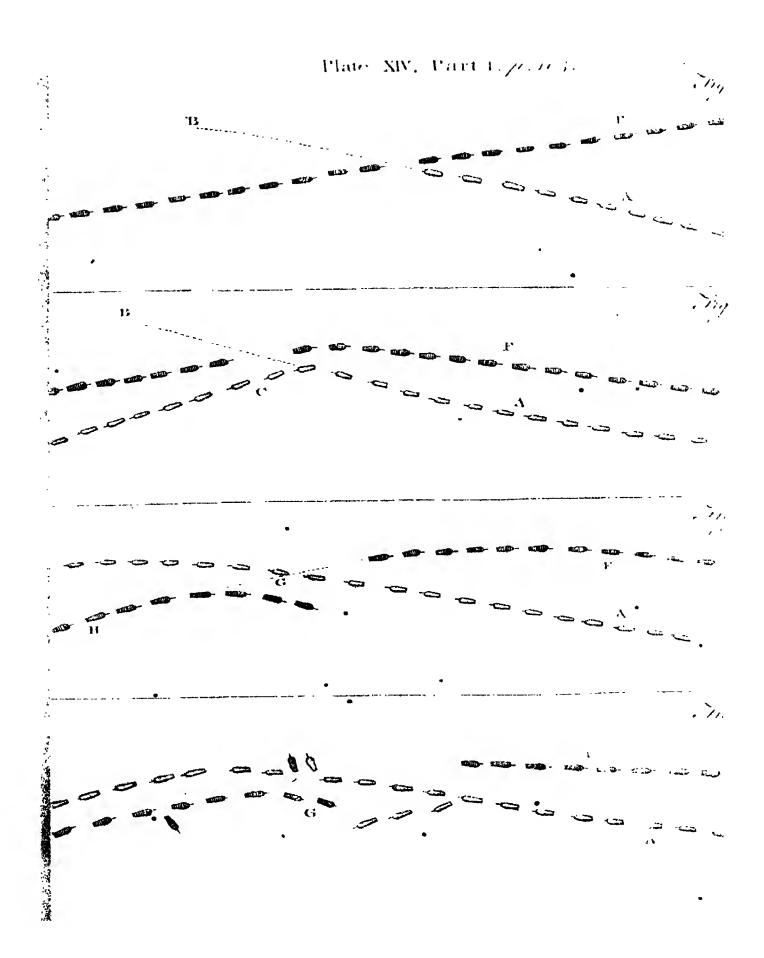
"With respect to the above observations, it seems need no here to recome, that they made part of a former description of this rencounter of the 27th of July 1778, written soon after, and then put into the hands of a tew from is That the author being in London in January 1780, many disculsions were hold, at the desire, and in presence of the sum friends, as well for improving up, as for the con municating of, these and other ideas on nixely these, and patternable on one occision, by appointment with an officer of most distinguished in any That they were afterwards intended to be inserted in the list edition of this Essay, printed January 1. 1782, as being applicable to the two similar rencounters of Lord Rodney, of the 15th and 10th of May 1780, as well as to this of the 27th of July, where the adverse sheets had passed each other on contrary tacks. But it was afterwards thought proper then to omit them, as it was contained it shight be of prejudice to the other parts of the subject to advance any thing shading that time, having been given.

the one of the other, and, by dint of failing, or by change of wind, that the leading ships of the enemy F, shall have gained

- of the leeward fleet A, was to continue the line of direction of
- 112. their first course AB, and were not all, thip after thip, to bear
- enemy's line of battle might be cut in twain, at at G (Fig. 3.), and have thereby their reast He separated from their van F.
- 114. (Fig. 3.); or otherwise, by such extrempt, the course of all the ships aftern of this attack being thereby stopped or retarded, the enemy F (Fig. 4.), to support these thips, will be compelled to hazard an engagement, that shall be close indeed, or he must altogether abandon the ships so stopped in his rear at G, (Fig. 4.)

Lightaps it will be faid, that the risk of danger attending an attack of this kind, might be greater than any advantage that can be proposed.—To which, it is answered. The very first time ever we thall have the spirit to make the experiment, the success will be sufficient to justify the attempt, by confirming us, that the risk or damage to shipping in making the attempt, will be sound to be of less moment than in any one other mode of attack what-

been thought an adviseable meature upon this occasion, should not fix no other essivient plan of attack have been especiated, by which, upon a supposition, if the 'two sleets should be brought to pass each other on contrary tacks, that the leading ships of the British squadron, after having ranged past the line of the enemy, we shall be pasted to pass the start having ranged past the line of the enemy.



have been appointed to tack, and, by doubling back, as per courte B (Plate XV Fig 1), have brought the thips in the real of F between crofs fires?

- a closer and more general engagement, or the enemy, of consequence, must have shandoned then rear, as in the former case. Not having been able to foresee, provide for, or advise upon either the one or the other of the cases, during the four days the British squadron was in pursuit of the enemy, is very extraordinary, because, by being to leeward, the enemy, desirous of going off, and the wind not changing, it is without doubt demonstrable, that the rencounter of adverse fleets in such position, and under such circumstances, will never be on the same tack, but, of necosity, will always be on contrary tacks
- 118 The two fleets, upon this occasion, passed each other in opposite directions, at the rate of five miles per hour. That of the literach consisted of 26 thips; and, as the space occupied by each thip, including the intervals between may be about 294 yards, (si, 100 yards, No. 25), their whole line (founded upon the time proportion) may be supposed to be about sive miles in length. From which it will be evident, that the whole extent of the respective line of each sleet must have passed the complete line of the other in one hour; and each thip in the British line must therefore have ranged pass the length of the whole French line (admitting nothing extraordinary to cause a stoppage) in the one half of that times

119. Again, let us make a supposition, that two, three, or more ships, in line of battle, are passing each other in apposite tacks, at the rate of five miles per hour; then will the velocity of the transit be equal to ten miles per hour. Or, which is the same thing, let us, for the sake of demonstration, suppose the one sleet at rest, that is, without any motion ahead whatever; but let the motion of the other ahead, and in an opposite direction, be equal to ten miles per hour, then each ship of the squadron in motion will pass through a space of 880 feet in one minute of time.

For the number of feet in one mile, being — 5280 multiplied by 10, gives the velocity of the tranfit ten miles, or 52,800 feet, performed in one hour; which fum being divided by 60, so)52800(880will give 880 feet, the velocity of one minute.

And as the length of each ship will not much exceed 200 sect, then it is evident, that the duration of time in which one ship will continue in direct opposition to any one other ship, of equal length, in the enemy's line, so as mutually to annoy each other, cannot exceed one quarter of a minute of time.

120. Again, suppose any number of thips, six, seven, or eight, running upon a starboard tack, at the rate of sive miles per hour, and an equal number of the enemy, passing in opposite direction, at the rate of sive miles per hour likewise, (as in Plate XV. fig. 2.); then, according to what has been said, each ship of the squadron.

fquadron B, will pass each ship of the enemy F, with the interval between ships included, in one minute; that is, (the motion of both ships comprehended), will amount to 880 feet in one minute, say 500 yards, that being the usual allowance of space for each ship as extended in line of battle.

- will be confined, in point of time, fo far, that she will be able to give her fire to the ship B, while she shall be in direct opposition to her at the point A, because she must be in preparation to give a second broadside, when the ship D shall have come in direct opposition also; but, by the supposition, the transit of each ship is consined to one minute of time only. Therefore, though it were possible that the guns of the whole of the ship's broadside could be loaded, prepared, and repeated, in the space of one minute, shill it would be impracticable for the ship F to give more than one broadside to the ship B, even by following her in an angular direction, as that represented by G siring upon C, and afterwards to be in sufficient time prepared to give a proper reception to the ship D, now saft approaching.
- the rate of five miles per hour, and if it were possible that the loading and firing of a ship could be repeated once every minute of time, each ship still could be exposed to the fire of her antagonist during the space of one quarter of minute only, that is, while the two ships in question were in direct opposition, as at A from F; and, as the sleet of the enemy, on this occasion, consisted of 26 ships, each British ship, in ranging along the whole of their line,

line, could be exposed to a cannonade of six minutes and an half duration only: And, in place of sive miles, if the two sleets had passed each other with a velocity equal to 2½ miles per hour, (a rate of motion required to make a ship answer the helm, but absolutely necessary to keep her under proper management in line of battle, when working to windward, as on this occasion), then, and in that case, each ship would be exposed to a cannonade of not more than thirteen minutes duration.

- 123. Again, if it shall be found impracticable to load and discharge a complete broadlide in the space of one minute, and that this operation shall require fix, eight, or ten minutes, one time with another, when it comes to be repeated, in an engagement of any duration, how much then will the effect be different! It must be observed, however, that these calculations are founded on the average of motion and time, taken upon the whole number of the ships comprehended in the French line of battle, and that particular British ships, from accidents, might have made their transit, by ranging past the fire of the enemy, some with more motion, and some with less.
- the parties, on coming to the ground appointed, had pushed their hories at full speed, exchanging a few pistol shot as they passed one another in opposite directions, at a distance of forty or sisty vards, and then some idea may be formed of the effect of rencounters, where adverse sleets are brought to pass each other on contrary tacks, having nothing surther in view than exchanging the sew cannon shot which can take place on all such occasions.

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125. From all which it must be evident, that the most artful management of fails, the closest approximation, or the most spirited cannonade, will avail nothing under such circumstances, and that it is vain to hope, that ever any thing material can be effected against an enemy's sleet keeping to windward, passing on contrary tacks, and desirous to go off, unless his line of battle cur be cut in twain, or some such other stop can be devised, as has already been described.

SECTION III.

126. THE UNGAGEMENT OF THE BRITISH FLEET UNDER THE COMBINED COMMAND OF MR. MATHEMS, WITH THE COMBINED LELLS OF FRANCE AND SPAIN, IN THE MEDITER-RANGAN, OFF TOULON, PEBRUARY II. 1744 T.

I may P. P. (Plate XVI. fig. 1.) Admiral MATHEWS in the Normal, commonding the centre of the British Beer, at 10 o'clock, when the dignol for battle was given, and three hours before the campaignest began.

A, The rest under Mr LESTOCK, at that time feveral miles others.

C, The van, under Mr Rowley, fome miles ahead, and to windward, faid by Mr Lesmock to be in diforder.

F, The van and centre of the enemy closed, and composed of some Spanish, but, the greatest part, of French ships, then going at the rate of three or four miles an hour.

(;

* Britith, 21 thips of the line, 2 of 50 guns, and 9 frightes. Fr. och and Spaniard 4, 28 thip, and 4 hightes.

4 To the battle, distinguished as it is by paculiar circumstances, and the better to expect a delire of doing justice to the Admiral who commanded, it has been thought proper to assign a place by itself. The account of it is taken from plans, with deteriptions, presented to the House of Common, by Vice-Admiral Libertock, who commanded the near of the Bruish sleet, and who was the account before the Communication, by the sentence of which Mr Maritans was seen leaded to be broke.

- G, The Spanish Admiral, Juan Jozeano Navarro, in the Royal Philip, with three thips of the rear divition, a great way separated from the centre.
- 11, Five other Spanish ships, also belonging to the rear division, but far aftern of the Admiral.
- A, (Plate XVI. fig. 2.) The rear division of the British, under Mr Lesrock, at one o'clock, fill very far aftern.
- 123. B. Mr Mattews, in the Namur, at one o'clock, three hours after the figual for buttle, having broke the line, here down, accompanied only by the Norfolk and Marlborough, his two fecours ahead and officer, and begin the engagement with the Royal Philip and his fecouds.
- 129. C, The van, under Mr Rowlley, not yet engaged, but; watching carefully to prevent the van of the enemy from getting the wind.
- F, The centre and van of the enemy flill far ahead of the rear.
 - G, The Royal Philip engaged with the Britith Admiral.
 - H, The five Spanith thips flill far feparated from the Admiral.
- 150. I, The Poder, a Spanith thip, cannoraded, but at a great diffance, by five thips in the British-line.
- 131, K, The Constant, the Spanish Admiral's fecond ahead, beat out of the line by the Norfolk, the Admiral's other fecond ansatz florn firing at her to make her to return.

A, (Plate XVI, fig. 3.) Mr Lustock fill aftern.

P 2 5

- 139. B. Mi MATHEWS, affifted by his feconds, filences the fire-from the Royal Philip, and fends the fire-ship down the wind to fet him on fire; which fire-ship, as she blew up somewhere at L, in the intermediate space between the two squadrons, did no hurt to either. The Lieutenant, Clumer, and four men, perished in the slames; the remainder of the crew escaped in their boats.
- C, The van of the British cannonading the French, but at a creat difference.
- D, Four thips, which did not go down to support the Admi-
- 188. I. The Berwick, commanded by the gallant Mr HAWKE, alongh in the van division, broke the line, bore down within balf wasket that, (while other ships kept to windward), gave battle to the Poder, and, at the first broadside, killed twenty-seven of her men, and dismounted seven of her lower-deck guns *.
 - 1, The French, flill on the larboard tack, and far ahead.
- 134. G, The Royal Philip preferved from the flames, but a perfect wreck. Such a confernation took place on board, upon the approach of the fire-ship, that many of her crew leaped overboard and were drowned.
- 195. H, The sternmost thips of the enemy siring at the firestip as she was coming down, but did not seem to reach her.

Α,

In a little time afterwards, the Poder, lowering her colours, was boarded, a command the force time, by to as feat from feveral flaps of the British fleet; but the commander, like a true Spaniard, declaring that he had struck to the Ber-Tell only, delivered up his fword to the officer from that thip.

MATHEWS'S ENGAGEMENT.

- A, (Plate XVI. fig. 4.) Mt stock still aftern; but it is said had very little wind.
- B, Mr MATHEWS, in the Namur, got to windward, Mr LESTOCK having faid, that, foon after the engagement began, he (MATHEWS) quitted his station, and left the Marlborough M, it is heat of action.
- C, The van of the British, now upon a contrary tack, and returning to join the centre.
 - E, 'The Berwick quitting the Poder.
- F, The centre and van of the enemy now upon the flarboard tack, and doubling back to support their rear, conceived to be in great danger.
 - G, The Royal Philip; II, the five ships in his rear.
- 136. I, The Poder, which was retaken by the French, with a Lieutenant of the Berwick and twenty-three men on board.
 - N. B.—At this period (fays Mr Lestock) Admiral MA-THEWS thought proper to haul down both fignals, that for engaging, and also that for line of battle.
- A, (Plate XVI. fig. 5.) Mr LLSTOCK, with his divition, (as he has faid himfelf), falling into the line of battle ahead, according to the fignal then abroad.
- 137. B, Mr MATHEWS, at half an hour after five, again made the fignal of line of battle ahead, and put about; but there being little wind, some ships tacked, and others wore, as did the Admiral himself, and formed the line of battle ahead on the other tack, viz. the starboard, leaving the Poder, as Mr Lestock says,

1 1

to be retaken by the French quadron, with the Berwick's Lieutenant and twenty-three of her men. To precipitate was his flight from the French (fays be) that there was not time to fave his men.

- N. B.—Admitting all this speed and harry, it might have been faid that Mr Marnews rejoined his rear,—not his rear had advanced much to support and rejoin him, as Mr Listock would have it believed, when pointing out his own fituation.
- C. Eli Rowley, with the van, flanding after the centre of the feet.
- D. The four folias, the Dorfetshire, Eslex, Rupert, and Royas Oak, bring at the five thips in the Spanish rear, now within gunfact, brying fallen to beward in wearing, when the Admiral did.
- I is. I, The French squadron pushing the British van, within piscol-shot, (as has been said), but without thing a thot, being intent only on disengaging the Spanish squadron in the rear, which ought to have been taken or destroyed long before this sine, even without Mr Lestock's assistance, had every one done their duty.
 - G, The Spanith Admiral.
- 11. The five Specith thips firing at the four thips, now on contract tacks, and thought to be within reach.
 - I, The Poder, retaken by the French.
- N. The Maddered th in tow, with frigates attending on her, on her way to Mahoa.

Night coming on, the combined flects being to leew and, carried off their difabled thips, by having them in tow, and taking with them the Diemenant of the Berwick, with twenty-three of her men, who had been put on board the Poder, and quitted her, where the was afterwards burned by the Effex.

Without entering into the merits of the dispute between Mellis Matricus and Lestock, what might have been the most proper time for giving the fignal for bearing down to close engagement, we have no doubt that the fellowing observations will now be found just:

- 139. That, if Mr MATHLWS and his feconds had been properly imported, the greatest part of the Spanish rear might have been cut off: Therefore, that the attack made by him upon the rear of the enemy, as it was so far separated from the centre and van, was both bold and well designed at the time.
- 140. That, as Mr Rowley's polition with the van did overawe the van of the enemy, it was a proper one.
- 141. That it is evident that the French, on this occasion, as as well as on all the others that have followed fince that time, had the fafety and preservation of their thips only as the principal thing in view.
- 142. Again, from this battle, we may be able to form some judgment of the effect of cannon-thot, with respect to distance.

The Royal Philip, the Spanish Admiral *, in his combat with the British Admiral and his seconds, had all his rigging destroyed, not a top-mast lest standing on end, his main-yard upon the deck, and two or three port-holes beat into one. He had 238 men killed, and 262 wounded.

The Conflant, the Spanith Admiral's fecond ahead, during the thorr time the flaid, had 25 men killed, and 43 wounded.

On the other hand, the Marlborough, opposed to the Spanish Admiral and his seconds, had her main and mizen-masts beat overboard, and, though otherwise a wreck, had her ensign nailed to the stump of the mizen-mast which remained. She had 43 men killed, and 128 wounded;—amongst the first was Captain Cornwall, her brave commander, and Captain Godfrey of the marines.

between the combatants must have been very considerable, that could have admitted of a fire-ship being put in motion, set on the, time for her men to take to their boats, to quit her, and to get off, and, lastly, to blow up without injury to so many ships furrounding her. After so many circumstances being allowed to take (lace, can the distance be thought to be less than 400 or yards at least?

141.

	Gares	Men.	. BRITISH FORCE.			
Roy F Philip IChella Chall ca	114 80 70	900	Nurfolk Namur Marloorough	90 90	Men. 655 785 759	
	264	3000		* 363	2130	

144. Again, the Poder of 64 guns, another Spanish ship, after having been exposed a long time to a cannonade from five ships in the British line, without having suffered material damage (vid. No. 14.); yet the first broadside from the Berwick (which had broke the foresaid line, and had approached within half musket-shot *) killed twenty-seven of her men, dismounted seven of her lower-deck guns; and, when she struck to the Berwick, had not a mast slanding.

on to action, has long been confidered as a fufficient fignal; and Mr Mathews's ship, when going down to battle, as Admiral, in the centre, should have been the example for his whole sleet, whether the signal was given at ten or twelve o'clock. The brave commanders of the Norfolk and Marlborough, his seconds, were of this mind; as has also been Sir George Rodney upon a later occasion: Therefore, every ship which kept her wind, and did not follow the Admiral, Mr Mathews, down to sight the enemy, ought only to be considered as breakers of the line. And hence that Sentence of the Court-Martial which broke Mr Mathews, ought virtually to be considered as the source of all the many naval miscarriages since.

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The distance between these two ships at this time may be supposed to be about 400 or 500 yards, not less than that between the two opponent stag ships. The boats from several ships of the British sleet getting on board the Poder when she struck, at one and the same time, is in some degree a confirmation of this opinion.

SECTION IV.

146. ADMIRAL PARKER'S ACCOUNT OF THE ENGACEMENT WITH THE DUTCH ON THE DOGGER BANK, 5TH AUGUST 1781. *

' Yesterday morning we fell in with the Dutch squadron, with a large convoy, on the Dogger Bank. I was happy to find I had the wind of them, as the great number of their large fri-' gates might otherwise have endangered my convoy. steparated the men of war from the merchant thips, and made a ' figual to the last to keep their wind, I bore away, with a general fignal to chafe. The enemy formed their line, confilling of eight two-decked ships, on the starboard tack. Ours, including the Dolphin of forty-four guns, consisted of seven. Not a gun was fired on either fide until within the distance of half musket-shot. The Fortitude being then abreast of the Dutch Admiral, the action, began, and continued with an unccafing fire for three hours and forty minutes. By this time our thips were unmanageable. I made an effort to form the line, in order to renew the action; but found it impracticable. Bienfaisant had lost her main top-mast, and the Buffalo her fore-yard; the rest of the ships were not less shattered in their masts, rigging, and fails; the enemy appeared to be in as bad a condition. Both squadrons lay-to a considerable time near each other.

^{*} Pritifh, feven thips, four frigates. • Dutch, eight thips of two decks.

other, when the Dutch, with their convoy, bore away for the Texel. We were not in a condition to follow them.'

- 147. This affair, though in itself greatly different from the many we have had with another enemy, yet, with respect to the subject before us, viz. the mode of attack, is perfectly similar. The gallantry of the Dutch resusing to fire a gun until the British Admiral should have made choice of his distance, could have no prior influence upon the determination of the British Admiral in his mode of attack; nor will it make any other difference in the manner the French may afterwards receive us, than to redouble their anxiety not to lose the least possible chance of annoying our ships, let the distance be what it will, whenever we shall be disposed to attack them.
- 148. Though this battle has a greater resemblance to the old Dutch than the present French manner of sighting, we cannot help recalling to remembrance those glorious and obstinate consists of former times, which did so much honour to both nations.

SECTION V.

GENERAL OBSERVATIONS.

149. From these examples, it appears, that the attack, in every one of them, without variation, has been made by a long extended

tended line, generally from the windward quarter, by fleering or directing every individual ship of that line upon her opposite of the enemy, but more particularly the ships in the van.

- fital in every attempt; that is, our fhips have been so disabled, and so ill supported, that the enemy have been permitted not to only to make sail and leave us, but, to complete the disgrace, have, in passing, been permitted to pour in the sire of their whole line upon our van, without a possibility of retaliation on our part. The cause, then, of these miscarriages, can never be said to have proceeded from a fault in our shipping, and far less from a want of spirit in our seamen.
- 151. And, though we have not yet been so happy as to see their innate naval spirit exerted with advantage in the greater sights, we may yet have the consolation of being assured, even from these examples, that it does exist, if we take into consideration the habitual desire they constantly have shewn of making the attack, in spite of every discouraging affront: On the other hand, that the enemy may justly be said to have it not in that degree, if we consider the habitual desire they have constantly shewn, as well in avoiding, as in refusing to make the attack.
- 152. From the mode of this attack, followed throughout most of the examples we have given, it would seem that an idea had been formed, by stopping the van, of taking, destroying,

has proved this attempt impracticable. But will not this idea be also found contradictory to the general complaint of the desciency of our ships in point of failing? For, if this desciency is a truth, would it not have been more natural, upon a chase of the enemy, to make sure of the slowest failing vessels to be found in the rear, than to attempt to get up with the swiftest ships to be found in the van?

- 153. Another reflection will naturally occur: That, by the great destruction of rigging, the consequence of this mode of attack, the nation has been thrown into a most enormous expence of repair, while our enemy, by their cautious conduct, preserving their ships often unhurt, has been enabled not only to protract the war, but, if persisted in, will, without doubt, ensure the postession, perhaps, of a superior navy, complete and entire to the conclusion.
- 154. Having now demonstrated, from evidence which should be satisfactory, that the mode or instructions hitherto sollowed for arranging great fleets in line, so as to be able to force an enemy to give battle on equal terms, must be somewhere wrong, it will be required to show whether any other mode may be devised, or put in practice, that will have a better effect.

But, as nothing can be devited of worfe confequence than what has fo long and repeatedly been put in practice, an offer of

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^{*} Nos. 32. and 58.

any thing new, it is to be hoped, may be examined with that attention which the importance of the subject demands.

By the phrase new, is not here meant, that what follows was never either spoke of, or thought of before; but it is surely so far new, as never to have been put in demonstration by writing; nor is there any examples of its having been put in practice in actual combat.

155. But, if the method or practice of bringing fingle ships into action has been found, by long experience, to succeed so well, why should not this practice, in some degree, be applied to numerous sleets? And if we have proved that the intrepidity and perseverance of our seamen must be equal, if not superior, to the enemy, ought we not at once to endeavour to bring this superiority to avail us where it best can, that is, in getting as close alongside of the enemy as possible? And that this may be done, not only upon equal, but upon far superior terms, will be endeavoured to be proved by demonstration in the following mode of attack.

MODE OF ATTACK PROPOSED.

SECTION L

THE ATTACK FROM THE WINDWARD UPON THE REAR OF THE ENEMY.

156. Suppose a fleet of ten, twenty, or more ships, extended in line of battle at F, (Plate XVII. sig. 1.), endeavouring to avoid a close engagement, but, at the same time, keeping under an easy sail, with the intention of receiving the usual attack from another sleet of equal number, three or sour miles to windward, at B, sailing in any sorm; but let it be in three lines or divisions: It is required, by what method shall B make the attack on F with advantage?

The improbability, or rather impossibility of attacking and carrying the enemy's whole line of ships having already been demonstrated (Vid. Nos. 32. 38.), the next consideration will be, How many ships may be attacked and carried with advantage? Let it be supposed that the three sternmost ships only, and not exceeding the fourth, are possible to be carried; let a sufficient strength, A, be sent down to force an attack upon these three ships, disposed

and improrted according to the judgement of the Admiral, while, in the mean time, he should keep to windward with the rest of his sleet, formed into such divisions as might best enable him to attend to the motions of the enemy, and the effect of his attack; being himself so far disengaged from action, as to be able to make his observations, and give his orders, with some degree of tranquillity.

157. By placing the fleet B in the division (as in Plate XVII, fig. 2.), means only that the attacking fleet shall be so disposed, and so connected together, as to be able to give the support and attention that may be required to any ship, or any part of the fleet, and in preference to a long extended line of six or seven miles in length (No. 25.), where it must be impracticable to give the necessary support to such ships as may be disabled *.

SECTION II.

ATTACK UPON THE ENEMY'S THREE STERNMOST SHIPS MORE PARTICULARLY.

drow may, by many, be thought a proper rule for determining the number of the thips to be attacked, yet, as there will be next to a certainty of carrying three, we would choose to keep by

[&]quot; Vid. Section IV. No. 15.

by that number. Wherefore, although it may afterwards be found proper to give other opinions, and to enter into a fuller discussion of the choice, and the best arrangement of the particular ships desired for the approaching, and making this attack, it is necessary here to carry on the following demonstration upon the supposition of three ships being the number proper to be attempted.

- It will be evident, however, that the headmost, or fwifteft failing thips of B may get close along-fide of the flernmost of the enemy F, even though the thips of F thould, in general, be fafter fallers than those of B; an opinion which, for argument's fake alone, shall be for once admitted. But it will not, therefore, be admitted, that every individual flip of a great fleet, or even of the number 15, as in the figure, will be able to outfail every individual ship of a numerous British sleet, or even of the number 15, as in the plan. Therefore, there will be a necessity that the swiftest ships of B must come up along-side of the steriemost and dullest failing ships of the enemy F; while, at the fame time, F (by an attempt of outfailing B) must be thrown into the diforder of a downright flight: Therefore, of courie, it must be admitted, that, if the enemy F continues going off in line of battle, and endeavouring to avoid a close engagement, it will be impossible to prevent the fleet making the attack from getting into the polition of figure 2.
- at I, will be in the power of the Admiral of B. For, by keeping

fo many thips to windward, he will be enabled to fend down fresh ships from time to time, either for the support, or to supply the station of any of those that may be disabled in making the attack, while it may be imagined, that the three ships in question, by being disabled, or being deprived of the wind, now taken out of their sails by the ships to windward, will be prevented from following their friends.

161. From hence the enemy ahead must either abandon his time thermost ships, or he must double back to support them, which must be done either by tacking or by wearing. But let it be first examined what is naturally to be done by tacking, and for the greater satisfaction, let every possible case that can happen be examined separately.

SECTION III.

THE ENEMY'S ATTEMPT TO SUPPORT HIS THREE STERN.
MOST SHIPS BY TACKING HIS FLEET.

162. (Plate XVII. fig. 3.) First let us suppose, that the enemy at F has continued to protract his course in line of battle, upon the same tack, and that the headmost ship H, with the three next aftern of her, have tacked to windward, and that the whole remaining ships intend to tack the same way, but in succession (as in fig. 3.),

I, in the power of the thips at A; that he must also leave exposed his fourth and fifth ship G to another attack from another division of the British at C, which will also be on equal terms as with his three sternmost at I; and, lastly, if he prosecutes his intention of supporting his three ships, he will be obliged to begin a disadvantageous attack upon the Admiral, with the main body of the fleet lying ready to receive him.

- * 163. (Plate XVII. fig. 4.) The confequence of all which will be, that he will not only lofe his three fternmost ships, but, in all probability, the fourth and fifth also, as at G in fig. 4., and will be forced to begin an attack, and close, and mix, ship with ship, on equal terms; a situation which he, at all times, with the greatest anxiety, hath avoided, and we, with equal anxiety, have always courted.
- 164. (Plate XVII. fig. 5.) Again, suppose that his three stern-most ships have been attacked, and that he shall order his sleet to tack all at one time, as in fig. 5. The consequences will then be, that this movement having required some time, and some length of course, will have produced a considerable distance between his main body and his three ships; or, in other words, that they have been deserted; for it will not be in their power to tack with the rest of their friends.
- 165. He must also, in bringing his ships heads round, expose the ships nearest his enemy to be raked by a dreadful cannonade.

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166. (Plate XVIII. fig. 6.) He must also run the risk of having his steet thrown into a general disorder, by many of his ships nusling stays, wearing, and running to leeward, as in fig. 6. Lastly, upon a supposition that his ships have all tacked, and none of them missed stays, still he must, of necessity, begin the attack, mix thips, and come to a close engagement, as in the source case.

SECTION IV.

MOST SHIPS, BY WEARING HIS THEET.

- ward, let us also examine what may be expected from an attempt to leeward. Suppose the two fleets in the same position as in Plate XVII. fig. 2.; that is, the main body of the enemy extended in line of battle to leeward, his three sternmost ships entangled with the sleet B, whose Admiral, with the main body, keeps to windward, to observe, with a rigid attention, the motions of the enemy.
- 168. (Plate XVIII. fig. 7.) At the same time, suppose that the Admiral F has ordered his sternmost thip G to wear, and afterwards

afterwards the whole line, and that he is now running upon a contrary tack to leeward, as at II, withing to support or bring off his three ships.

From infpection, it will be evident, that this attempt may be more dangerous than the attempt to windward; for it will expose a number of his ships to a raking sire while in the act of wearing, and the squadron, by getting so far to seeward, will be unable to give the proper support to the three ships.

It will open a gap for the flect of B (who will immediately wear also, and follow him) to break in, as at A, and cut off the three ships, without hope of recovery.

And, if I shall still persist in the endeavour to recover his three ships, he will be obliged to begin the attack, under all the usual disadvantages.

169. (Plate XVIII. fig. 8.) Again, upon another supposition, that the headmost ship of the enemy H, with the four or sive next aftern, have wore, and are running upon a contrary tack, withing, as before, to support or bring off the three ships, the rest of the sleet intending to wear also, and follow in succession, is it not evident that this movement, being more unseamantlike, will be worse than the last?.

It will expose an additional number of ships, particularly the last two, as at G, and will, at the same time, make an opening for the main body of B's sleet to fall in and cut off the three thips, as in the former case.

- 170. (Plate XVIII. fig. 9.) Again, should the enemy F wear and bear away with his whole ships at one and the same time, in fig. 9., it is evident that this movement must have the consequence of a downright slight, with the certainty of losing the three ships.
- 171. Lastly, upon the supposition that such an attack has been made, and that the three ships are entangled, it generally follows, that, though the wind may be blowing a fresh gale at the beginning of the battle, yet it often falls away so much from the essect of a violent cannonade, that it may be impossible for the head-most ships of F's sleet to give the least assistance to his ships distressed in his rear.
- keeping connected in a body to windward, may come up with, and entangle the three sternmost ships of an enemy F, extended in line of battle, and going off to leeward, and, at the same time, be able to overawe the remaining main body of their sleet; and that, having forced the position, as in plan 2d, the whole consequences, as already described, must follow; that is, F must submit to the loss of three ships.

What has been hisherto faid proceeds upon a supposition, that the sleet F has kept on his course till the sleet B has come up with his rear; let it then be examined what other attempts the enemy F can make to avoid coming to close engagement upon equal terms.

SECTION V.

THE ENEMY ENDEAVOURING TO AVOID THE ATTACK UPON HIS REAR, BY WEARING, AND PASSING ON CONTRARY TACKS TO LEEWARD.

- 173. (Plate XVIII. fig. 10.) Suppose a fleet of ships of the enemy standing on the larboard tack to leeward, and going off as before at F, and a fleet of ships in a collected state or position to windward, as at B, sig. 10.
- 171. (Plate XIX. fig. 11. and 12.) And suppose that the enemy F, perceiving the fleet B pointing an attack against his rear, as in fig. 11.; and that, in place of keeping on his course upon the same tack, he should wear, and endeavour to pass on contrary tacks to leeward, (for it will not be admitted that he can get to windward, see plan 12.), What will then be the effect?
- 175. Is it not evident, that the headmost ships of I must be forced to leeward by the fleet B obstructing his line of direction, or the line of his course? They must be forced to begin an attack at any distance B may choose.

- 176. (Plate XIX. fig. 13.) That they may receive fuch damage as will ftop their way: That their way being stopped, will of course be an obstruction to the next aftern; or, that these subsequent thips, to prevent this stop, must bear away to leeward of their crippled ships, as at G, which will not only prevent these thips from damaging the headmost ships of B, but will give time and opportunity to B to bring down his windward ships to fall in, either ahead or aftern, that is, to the right or lest, of his headmost ships A, and oppose ship for ship of the enemy upon equal terms. Vide sig. 13. plate 19.
- 177. But, should none of the headmost ships of the squadron I be crippled; that is, should F pass B without reach of cannon-thot, which undoubtedly he will do, still, while bearing away, he may be forced to suffer a distant cannonade, ship with ship, on equal terms.
- back upon his former tack, as at G, in fig. 14.
 - 179. Or continues to run before the wind, as at P, in fig. 15.
- 180. (Plate XX. fig. 16.) But, if F perfifts to pass on a contrary tack to leeward, and without reach of cannon-shot, is it not evident, that B must some time or other come up with the rear of F, whether B shall, at any time, be abreast of his centre, as in fig. 16.?

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MODE OF ATTACK PROPOSED.

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181. Or of his rear, (as in fig. 17. plate XX.)

182. Or whether F puts right before the wind, (as in fig. 18. plate XX.)

Or tuns off, thip by thip, as he belt can, (as in fig. 19, plate XX.)

SECTION VI

THE EFFECT AND CONSEQUENCES OF THE WIND SHIFTINC DURING THE ATTACK FROM THE WINDWARD,
CONSIDERED; IN WHICH SHAFE BE ENDIAVOURED TO
BE COMPREDINDED EVERY CASE, AS WELL POSSIBLE,
AS WHAT MAY BE PROBABLE.

So far the attack hose proceeded with the wind fixed in one and the time quarter. To make the demonstration the more complete, it will be necessary to inquire, What might be the effect produced by a change of wind, should that take place during the action? For this purpose, let the opponent steets be placed in some one of the preceding positions, representing the attack upon the three sternmost ships of the enemy (as in fig. 20.) Plate XXI. Vid. No. 158. Plate XVII. fig. 2.)

In which the fleet defirous of making the attack is represented in four divisions, as at B B B, A.

F, The fleet desirous of avoiding the attack, and abar loning his three sternmost ships at G.

CAȘE I.

THE WIND SHIPTING BY DEGREES, AND COMING ALT.

184. In the commencement of the attack, let us suppose the wind, from being in the north at N, on the first onset, that it shall come more and more after and by the western quarter to K. Then it is evident, by the disposition of the two sleets, that the sleet F, by such change, will have acquired no advantage whatever; on the contrary, it will thereby be thrown just so much the farther to leeward.

CASE The

THE WIND SHIFTING AND COMING BY DEGREES ROUND . AREAD.

185. Again, if the wind, by taking an opposite course, shall shift ahead, and shall come round by the eastern quarter to L (Plate XXI. fig. 21.), neither will I have it in his power to avail himself of this, providing the fleet B, in continuing carefully to attend

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attend his motions, and, affected by the impulse of the veering wind, shall stretch his fleet to leeward of him, but, at the same time, to windward of the ships as at OO, should F endeavour, by bearing-round-up, to rejoin his own ships that are engaged in the rear at G.

186. (Plate XXI. fig. 22.) Representing both fleets on the starboard tack, shows, at the same time, that F has not thereby acquired any advantage.

CASE III.

OF THE EFFECT, SUPPOSING THE WIND TO VEER CONTI-NUEDLY ROUND AHEAD.

187. Again, upon the supposition that F, by this last change, has now gained the wind (Vide Plate XXII. sig. 23.), it will not be denied that, in this case, he may maintain it, and that it may be possible for him to make a circular course RRR to windward of B, keeping the wind, as it may be disposed to veer round, by the eastern quarter, from the north at N to the south at S, or to the west at K, or even round to the north at N, from whence it set out; but, as he can be attended all the while by the sleet B, who will cut him off to leeward, he never will be able to recover his three ships at G.

CASE IV.

THE WIND, IN ONE INSTANT, SHIFTING IN DIRECT OPPOSITION.

- 188. Lastly, If the wind, in changing, shall, in one instant, that is, from the north at N to the south at S (Vide Plate XXII. sig. 24.), then, and in that case, before one can judge whether such change shall be favourable for F or not, it will be necessary that the relative situation of the two sleets should be determined such as it was when the change took place. For example:
 - and centre shall have separated at any considerable distance from his rear, as per Plate XXIII. sig. 24.
 - 190. Or if, in the farther profecution of this mode of attack, it shall have advanced to the position represented in sig. 25.; * it is evident, in both cases, that F, though, by this change, he shall have got to windward, yet, notwithstanding, he will not be able to avail himself of this seeming advantage, the fleet B having it still in their power to cut him off from his three ships.
 - 191. On the other hand, if this inflantaneous change of wind, in direct opposition, shall have taken place more early in the action,

^{*} Vide Plate XVIII. fig. 7. No. 168.

tion, that is, when the positions of the two fleets shall be such as represented in fig. 26. Plate XXIII. viz.

The fleet B in the polition of four divisions BBB and A, and the enemy in the politions F and G.

Then F, who before was to leeward, by this instantaneous change of wind from the north (at N) to the south (at S), having now got to windward of every division of the sleet B, is it not evident, that it may be practicable for him to carry assistance to his three ships (at G) in the rear, and, perhaps, even to cut off some one of B's ships (at A), if they do not, with all convenient speed, bear away (as at CC), to put themselves under the protection of their friends (B) to leeward?

- 192. But whether he (F) shall attempt to effect this mancuvre, by wearing his ships in the line (as at H H), or, what seems most eligible, by making his ships tack (as at I I), as it is to be presumed that his three ships, which have been some time engaged, must be considerably crippled, and not able to make sufficient sail, while endeavouring to bring them off, it will be difficult for him to prevent being drawn into a general and close engagement, which, by the supposition, he has all along endeavoured to avoid.
- 193. A farther profecution of demonstrations, which are likely to lead us on to the attack from the leeward, we think proper to decline for the present. It is a new subject, and, of itself, requires

quires a separate discussion. We will therefore proceed to bring into view those other accidents only which more immediately can affect the attack from the windward; not that such can be attended with consequences much different from what have already been treated of, but, the ideas once being started, and having great apparent importance, it becomes necessary to give them a sull investigation.

SECTION VII.

OF PARTIAL BREEZES OF WIND.

194. When the fleet in purfuit shall be favoured with a breese of wind, while the fleet desirous of avoiding the attack shall be be-culmed;

(Plate XXI. fig. 20.) Is it not felf-evident, how unfavourable this must be for the enemy F? He will thereby be the more casily overtaken in the pursuit; and, should the attack be begun upon his three ships, they will with the greater certainty be usined.

195. When the fleet desirous of avoiding the attack shall be fuvoured with the breeze, while the fleet in pursuit shall be becalmed.

It being evident, that the enemy (F) will have it in his power to make his escape with his whole fleet, if this partial breeze in his fa-

vour shall take place before the attack has begun, we shall pass on to the opposite case.

When the attack upon the three ships shall have commenced before this partial breeze in favour of E, the sleet pursued, has taken place.

196. (Plate XXI. fig. 20.) The variety of politions in which the two fleets may be affected is fo great, and the confequences which can be supposed attendant on this case so numerous, it will not be attempted to give a separate discussion of each. er, however, by applying his own ideas upon the subject to the plans before him * will be able to supply this for himself. the mean time, as it is imagined nothing in such investigation will be found that can materially affect the general issue, and fince no breeze whatever can favour the fleet F, so as to enable it to fail round and round the fleet B, (the fleet B all the while supposed to be lying becalmed), it will not be too much to say, that this partial breeze in favour of the fleet E, taking place after the attack began, although it may facilitate the escape of his van and centre, will not avail him much in the recovery of the three thips in his rear, perhaps not in any cafe as yet exhibited, excepting in this one, where the wind; in one instant, had shifted in direct opposition, No. 191.

When the attack shall have commenced before the partial breeze in favour of F, the steet pursued, has taken place, supposing the wind in one instant to have shifted in direct opposition.

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^{*} Comprehended in Plates 17. 18. 19. 20. 21. 22. 23.

197. That, even in this case, No. 191. (Plate XXIII. fig. 26.), the same breeze which would favour F in the attempt to bring off his three ships, would, at the same time, savour the escape of the ships of B at A, as formerly described. That this partial breeze would require to be of considerable duration, otherwise F, in thus attempting to bring off his three ships, crippled as they will be, must bazard a general engagement, in like manner as already described, No. 192.

SECTION VIII.

OF WINDS BLOWING IN CONTRARY DIRECTIONS.

- 198. In supposing, at any place, the existence of two distinct streams of wind actually blowing in opposite directions, the one from the north (for example), the other from the south, or from any two other opposite points of the compass; at that place also must be supposed an intermediate space, a line of separation between the two streams, parallel to both, and to be often distinguished by a fort of calm upon the surface of the water, occasioned by the eddy winds partaking of the effect of the adjacent and contrary streams.
- 199. That the requisite examples may the more easily be exhibited, suppose Plate XXIV. to represent a space at sea, in which

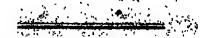
Part 1, p. 2, 10. Prote XX - Nig. 2 1. R.

two diffinct streams of wind are discovered blowing from opposite directions, the wind N N on the left side of the plate blowing down the page from the north, and the wind S S on the right blowing up the page from the fouth, and let Y Y be the line of separation between the two streams; under which description also, let Plate XXV. be comprehended, and let the usual characters serve to distinguish the different parts, viz.

- B, the fleet in purfuit;
- F, the fleet purfued;
- O, the three thips attacked;
 - A, the four ships making the attack.

200. Now, whether thips thall be going large (as in fig. 1.), or close hauf'd (as in fig. 2.), or running with the wind on the beam (as in fig. 3.), still their encounter with the line of separation Y Y will be similar, and to the same effect; and in no other direction whatever can steets encounter this accident of contrary winds, than what can be comprehended under these three cases.

The lotters K L and M (fig. 1. 2. and 3.) represent the corvesponding cases; when sleets coming from an opposite direction shall encounter, in like manner, such contrary streams of wind:



OF FLEETS ENCOUNTERING CONTRARY STREAMS OF WIND,
BEFORE THE ATTACK SHALL BE BEGUN.

managuring for force time in the lame liveam of wind, and have

assumed positions as before described, No. 156., or as B and F, (fig. 4. plate 24.) Let us suppose F the farthest ahead, that he has perceived the wind as changing to a direct contrary direction, and, from having had his ships on a larboard tack, as when at II, that he has got, or must be getting, his starboard tacks aboard, as at F F; or, in other words, that he has passed from one stream of wind, and has got into another, and contrary stream—is it not evident, if the sleet B shall stand on and follow, and shall get into this new stream of wind, the same with his enemy F, that he will be to leeward (as in fig. 5.), and, of course, that the mode of his attack must be changed? (Vid. No. 192.)

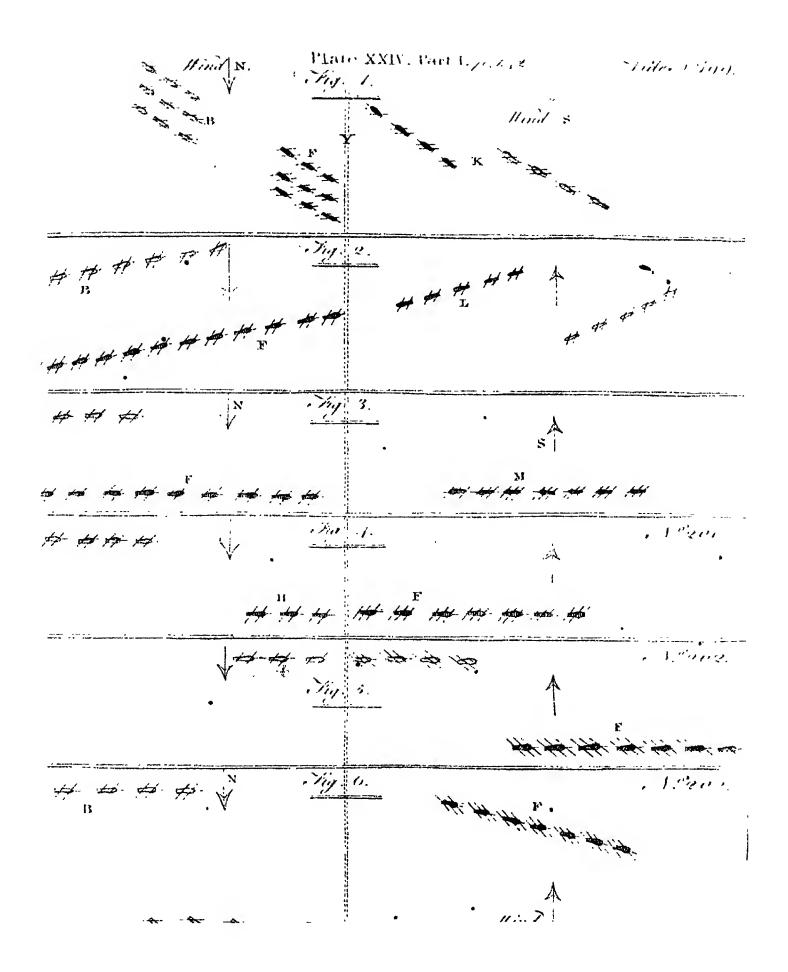
202. Again, on the other hand, suppose B, in declining to stand on, shall continue in the northern stream of wind, as in sig. 6.)—will it not be possible for him, by putting before the wind, as at C, to recover a position A to windward of F, so soon as ever he shall choose to pass from the one stream of wind to the other?

CASES AFTER THE ATTACK SHALL BE BEGUN.

203. Plate XXV. fig. 7. represents the attack already begun *, and continuing in the northern stream, while F, abandoning his three ships, has got into the southern stream with his van and centre.

204.

^{*} Plate XVII. fig. 2. and 3. Nos. 156. 157. 158. 159.



- 201. (Fig. 8.) The attack continued in the northern stream, and B, with his whole steet, dropping down the wind together, evidently will have the advantage of getting to the southward equally with F, the enemy, notwithstanding the efforts of F to get to windward in the opposite stream.
- aware of the accident before him, and having pushed ahead with his van and centre, will be prepared to support his attack of the three ships, whether he shall continue in the northern stream, as at C, or thall pass into the contrary stream, as at D, (sig. 10.)
- B, in continuing the attack, stand on, as at BBB, and, without precaution, shall have followed, and got into the same stream of wind with the enemy F; then F, of consequence, being to windward, will immediately have it in his power to carry assistance to his three thips, but whether by wearing his other ships in the line, as at HH, or by tacking, as at H, will still be exposed to the hazard of a general engagement, as before described, No. 192.
- 207. From all which it follows, that a collected and connected fleet of ships to windward will, on every occasion, be able to make an advantageous attack upon a fleet of ships to leeward, and wishing to avoid a close engagement; and that the attacked fleet, lying at such disadvantage as no managuring whatever can compensate, must be worsted.

SECTION IX.

OTHER OPINIONS HOW THIS ATTACK FROM THE WIND-WARD SHOULD BE CONDUCTED.

208. Many eminent feamen, however much they may be convinced that an attack made upon the rear of an enemy's fleet will have a much better chance of fuccess than in the case of an attack upon the whole line, or even on the van, as hitherto practised, have still different opinions how this attack should be conducted. These, as given to me, it is proper should be laid before the reader, although they are not what I would approve of.

209. (Plate XXVI. fig. 1.) First, If it is supposed that the attack shall be made by the greater part of the force of B's fleet, coming right before the wind, upon the six sternmost ships of an enemy b, is it not evident, that the ships of B, by making the attack in this manner, must be exposed, without a possibility of return, to as many broadsides from each of these six ships of F as can be got ready during a course of two miles?

Flence, as the faid ships of B will assuredly be disabled, before they will have it in their power to hurt the enemy, this disadvantage should determine the impropriety of this mode.

210. (Plate XXVI. fig. 2.) Suppose again, that some part of the force chosen to make the attack shall be sent to leeward (as at A), as well as to windward of the three ships determined to be attacked, (as at C.)

But the 'danger supposed, of thot passing over the enemy's ships,' aid 'striking those of friends, may be an objection to this mode.'

- 211. (Plate XXVI. fig. 3.) Others have been of opinion, that the headmost ship A, chosen to make the attack, shall come close up along-side of the sternmost of the enemy, and, having delivered her sire, shall push along the line as far as possible, which may be supposed to be the fixth ship of the enemy F; and, as it is evident that this sirst ship A may have received six broadsides, that is, a broadside from every one of the six enemy's ships, during her course in passing them, it has been thought possible that the other sive ships CCCC, by following close after her, may attain their stations, each abreast of her opposite, without having received a greater number of broadsides than they have had it in their power to return; and, therefore, that by this mode the number of ships to be attacked will be determined: For as many ships as the leading ship shall be able to reach, as many ships will the attacking sleet be able to carry.
- 212. (Plate XXVI. fig. 4.) A fourth mode of attack, which seems to be composed from a medium taken from the last. Let it be supposed, as in the former cases, that the steet B has been brought

brought up to action in a collected manner, but subdivided only to far as the service may require (as formerly stated in sig. 2.), and that the leeward division A shall be more particularly destined for the immediate attack, while, at the same time, the body of the sleet, keeping to windward, shall be supposed attentive to give the necessary support where required.

Then let it be supposed, that the headmost ship C, making the attack, having been soon crippled, shall not have been able to push farther than the third or fourth ship of the enemy's line:

Is it not eafy to conceive, fay they, that some one, or more, of the ships to windward, attentive to support and supply her place, may bear down on the fourth ship of the enemy, under cover of the smoke, throw in her sire, and push on to the sisth or sixth ship, as at D, or, perhaps, farther; and that so far as this fresh thip D, or a second fresh ship E, may be able to push, so many thips of the enemy may be expected to be carried?

For, whatever thips of the enemy can be got abreaft of, at a proper diffance, may be difabled, and therefore commanded, by the numerous fresh thips kept to windward for this purpose.

been thought a great object, if practicable, to throw a raking fire into the rear of an enemy's line of battle, by ships detached for that purpose, as at O. For if shot, as has been said, can take effect at a distance of two miles, from this position it will surely reach the fixth ship, if the enemy's line shall be formed at two cables length as and, if formed at one cable's length as and, it will reach, and may cripple the twelfth ship.

SECTION X.

CONCLUSION, WITH GENERAL OBSERVATIONS.

In the preceding Narrative and Demonstrations, we think it is shown,

- 214. 1. That British seamen, from the nature, as well as the greater extent of the navigation upon our coasts, must, of necessity, be superior, both in skill and intrepidity, as well as in number, to those of other nations.
- 215. 2. That deficiency in point of failing, upon many occasions, evidently has not been the cause of these late miscarriages; but, if it has really been the cause of miscarriage in others, is it not high time to set about such reformation in our dock-yards as may recover an equality in a point so important? Even supposing this to be true, why should we uniformly attempt getting up with the enemy's van, with a view to carry their whole sleet, instead of contenting ourselves with a certainty of cutting off a few of their dullest failing vessels in the rear?
- 216. 3. That the mode of running down the wind in a line, each ship directing her course upon her opposite, and pointing the

the attack upon the van, with a view of stopping it, in preference to an attack upon the rear, has proceeded from an idea of carrying every ship in the enemy's fleet; but this mode has evidently given the enemy an opportunity of disabling our ships, and preventing us from coming close along-side of them.

APPEN

APPENDIX TO PART I

ADMIRAL SIR GEORGE POCOCK'S ENGAGEMENTS WITH THE FRENCH FLEET, COMMANDED BY MONSIEUR D'ACHE, IN THE EAST INDIES, anno 1758.*

- · Admiralty-Office, October 12th 1759 .- Captain LATHAM, late
 - · of the Tyger, arrived at Portfmouth on the 9th inflant, in
 - ' the East India Company's ship the Admiral Watson, with let-
 - ' ters from Vice-Admiral Pocock, giving the following ac-
 - " count.
- * Admiral Pocock being joined by Commodore STEVENS,.
 * in Madras road, with the reinforcements from England, and
 * having put his ships in the best condition possible, April 17th

·U 1758,

^{*} The printing had advanced thus far, before the Author thought of including these engagements. They were in the same war; and about two years after that of Admiral Byng. A description thereof, giving an opportunity of introducing new matter, will the more elucidate the subject, and will at the same time complete the collection of those sea engagements, in which British Fleets, being to avindward, by extending their line with the design to slop, take, destroy, or describe rubole of the enemy's line to been and, have been disabled before they could reach a stuation from whence they could annot the enemy, &c. &c. Vide p. 43. Sect. 1

1758, failed in order to get to windward of Fort St Pavid's, * to intercept the French iquadron, which by intelligence he was made to expect was on their approach from the west-Sward, from the Ille of France: The 29th, in the morning, flav feven thips in Fort St David's road, getting under I'll; they be joined two others in the ofling; and, concluding them to be the s enemy, immediately gave chafe: Thefe thip, nine in all, thanding off thore under top-fails, formed the line of battle Sahoid: Admird Pocock formed his line of battle too; and, has from as his thips had got into their flation, being nearly * within random that of the enemy, bore down upon the · Zodiaque, on board which ship Monsieur D'Acue wore a cornette; but observing the Newcastle and Weymouth that " they did not bear away at the fame time, he made their fig-* nal.. The enemy began to fire upon the English as they were reging down; but the Admiral did not make the fignal to en-' gage, till he was within half mulket-shot of the Zodiaque, which was about three o'clock. A few minutes after, perseeiving the ships were not all got close enough to the enemy. he made the fignal for a closer engagement; which was immebe diately complied with by the thips in the van. At half past four, observing the year of the French line had drawn up * pretty close to the Zodiaque, the Admiral made the Cumber-' land, Newcaffle, and Weymouth, fignals to make fail up and engage close. Soon after, Monfieur D'Acht broke the line, 'and

British Ships.

Elizabeth, 64
Tyger, 65
Salubary, 50

Admiral, 64
Newcastle, 55

Weymonth, 65
Cumb rland, 64
Protector store ship

and put before the wind: his fecond aftern, who kept on the . Yarmouth's quarter most part of the action, then came up alongfide, gave his fire, and bore away. The other two fhips ' in the rear came up in like manner, and then bore away; and ' a few minutes after observing the enemy's van to bear away ' also, the Admiral hauled down the fignal for the line, and ' made the fignal for the general chafe. About fix, observing ' the enemy join two ships four miles to leeward, and at the * fame time hauling their wind to the westward, and feeming to ' form a line ahead, and the Yarmouth's mafts, yards, fails, and Grigging, as well as the Elizabeth's, Tyger's, and Salifbury's, being fo much damaged as to prevent their keeping up with the thips that were in the rear during action, who had receiv-· ed but little damage, and night approaching, the Admiral 6 followed the enemy as well as he could, flanding to the fouth-weft, in order, if possible, to keep to windward of them, ' in hopes of being able to engage them next morning. But as they showed no lights, nor made any night-figuals, that could be observed, he did not see them through the night, nor next morning; and therefore, concluding that they had wear thered him in the night, by being able to carry more fail, he. continued his endeavours to work up after them, until fix in the morning, May 1ft, when finding he loft ground confidersably, he came to an anchor about three leagues to the northward of Sadras, where he was informed that the Bien Antie of U 2

French Squadron.		Prigates.
Le Bien Amie, Le Compt de Provence, Le Vengeance,	Le Zodiaque, { Le St Louis, Le Duc de Oileans, Le Duc de Bourgoyne,	Le Sylphide. Le Deligere
Le Conde.	Le Moras joined after the batt	Ic.

Le Conde,

* 7 k guns (a flap of the enemy) had received fo much damage in the action, that they were obliged to run her afhance little to the fouthward of Alemparve, where the French figuadron was at an anchor.

"The French arrived in St David's Road at nine in the mornbing, the day before the British Admiral fell in with them. "They had not landed any troops before the engagement. s action was about 7 leagues W. b. N. of Alemparve. * miral obfercs, that Commodore Stevens, Captain LATHAM, s and Captain Somenser, who were in the van, and Kempen-* iter, the Commodore's Captain, behaved as became gallant · officers; and that Captain HARRISON'S I chaviour, as well as ill the officers and men belonging to the Yarmouth, gave him remibble fatisfaction; and that, had the Captains in the rear be done their duty as well, he should have had a great pleasure in commending them; but, their manner of acting in the en-4 gagement appeared to faulty, that, on his return to Madras, he ordered a court-martial to affemble, and inquire into their con-In confequence of which, Captain NICHOLAS VINCENT " was fentenced to be difmilled from the command of the Weymonth, Captain LEGG of the Newcastle to be cathiered from his Algefty's fervice, and Captain BRERETON of the Cumberland to lofe one year's rank as a post-captain.

'Admiral Pocock having repaired the most material damages of his ships, put to sea May 10% with an intent to get up to Fort St David's, but was not able to effect it. He got sight of Pondicherry the 30th, and the next morning the French squared dron, which had been there ever since the 5th, stood out of the road, and got away, notwithstanding the Admiral's utmost endeavours to come up with them. On the 6th of June, upon receiving

- s receiving an account that Fort St David's had furrendered to
- the French, he judged it prudent to return immediately to Ma-
- * dras, to refresh his squadron.
- . 'The Admiral failed again, July 25th, in quest of the enemy;
- and on the 27th, in the evening, got within three leagues of
- * Pondicherry road, where he perceived their fquadron at an-
- ' chor, contifling of s fail of the line, and a frigate. They got
- ' under fail the next morning, and fleod to the fouthward. The
- * Admiral made the figual to chafe, and endeavoured to weather
- them, as the likelieft means of bringing them to action;
- ' which, however, he was not able to accomplish till August 3d,
- ' when, taking advantage of the fca-breeze, he got the weather-
- ' gage, and brought on the engagement about one o'clock.
- * Monticur D' Achr fet his forcfail, and bore away in about
- 6 10 minutes, his fquadron following his example, and continu-
- ' ing a running fight, in a very irregular line, till 3 o'clock.
- " The Admiral then made the fignal for a general chafe; upon
- ' which the French cut away their boats, and made all the fail
- ' they could. · He purfued them till it was dark, when they e-
- ' feaped, by outfailing him, and got into Pondicherry road. The
- ' Admiral anchored the fame evening off Carrical, a French fet-
- " tlement."

Britith loss on this occasion 31 killed, 116 wounded. French loss, says the Admiral's account, 540 killed and wounded.

DESCRIPTION OF ADMIRAL SIR GEORGE POCOCK'S ENGAGEMENT WITH THE FRENCH FLEET COMMANDED BY MONSIEUR D' ACHE, EAST INDIES, OFF FORT ST DATIO'S, 29TH APRIL 1758.

From the foregoing letters, although we have not been informed either of the particular direction of the wind at the time, or even upon what tack the two fleets were during this engagement, yet, from these letters, circumstances are so far explained, that there can be no doubt of forming a description, which, in all other respects, will be sufficiently satisfactory.

(Plate XXVII. fig. 1.) F, The French fquadron formed in line of battle to leeward, upon the flarboard tack, as it is supposed; for it was flanding off from the land, with the wind in the western quarter.

B, Admiral Sir GEORGE POCOCK's fquadron; each thip come to her station, and formed in line of battle, thought to be about random shot distance to windward.

(Plate XXVII. Fig. 2.) F, The Zodiaque, on board which thip Montieur D' Acue, the French Admiral, wore a cornette.

A, The British Admiral in the Yarmouth bearing down upon the Zodiaque, but making fignals to the ships C C C aftern, the Cumberland, the Newcastle, and the Weymouth; the captains of these vessels, as it appeared, not having bore away together and at the same time with the Yarmouth, and the other ships thips in the van B. The enemy all the while kept firing upon the British fleet during their course in coming down; nor did Sir George Pocock, the British Admiral, make the figual to engage till he was within half musket-shot of the Zodiaque, as at F, about three o'clock in the asternoon.

Neither the ships D in the rear, nor the ships in the van M, were yet come to their stations, that is, at sighting distance.

Fig. 3. B, The Admiral, in the Yarmouth, arrived at a flation; within half mufket-thot of the Zodiaque F; but, perceiving that all his other flips had not even yet got fufficiently close in with the enemy, he made figual for a closer engagement, which was immediately complied with by the flips of the van, as at C.

Plate XXVII. fig. 4. The Admiral, in the Yarmouth B, obferving that the thips in the rear of the French line had drawn close up, as at G, with a view to support their Admiral in the Zodiaque F, he made the signals of the Cumberland, Newcastle, and Weymouth, D, to make sail up and engage, that is, to support him in his ship the Yarmouth.

Plate XXVII. fig. 5. B, the Yarmouth. Sir George does not fay that the ships D in his rear complied with this last figual, but he says that Monsieur D' Açhe, in the Zodiaque, immediately broke his line, and put before the wind, as at F F: That his second aftern, who had kept upon the Yarmouth's quarter the whole of the fore part of the engagement, afterwards came up alongside,

gave his fire, and then bore away in like manner, as at G. Immediately after this laft, the two remaining ships H in the rear made sail, came up, and poured in their fire, reserved for the purpose (of disabling the Yarmouth), and in succession bore away also. Last of all, the ships in the van I, taking example from the Zodiaque and the thips in the rear, quitted the line also, and put before the wind; and leaving the British van, which by this time were disabled from following them, they soon rejoined their centre and rear, when altogether forming a new line of battle four miles to leeward, as at K K, they were again prepared to give the British squadron a reception, should they have the least inclination to make a second attack.

OBSERVATIONS ON ADMIRAL SIR GEORGE POCOCK'S EN-GAGEMENT OF the 29TH APRIL 1758.

Sir George has not been particular in giving us the politive fituation of his ship the Yarmouth when he bore away to attack the Zodiaque. Supposing him to have been right to windward, and, in bearing down to attain a station at B, Plate XXVIII. sig. 6., abreast, and at half musket-shot from the Zodiaque, had he assumed the lasking course, so as to have formed the line of intersection A A, as in sig. 6., his ships, in going down, by suffering greatly, must have been crippled. Considering likewise, that the enemy, by running under topsails, must have been getting much ahead, he therefore would have had the greater difficulty

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in getting the ships in his rear up into action, as has already been explained by former examples, of Admiral Byng, Admiral Byng, &c.

Plate XXVIII. Fig. 7. Again, had he been aftern of the encmy, as at A, Fig. 7., when he fet out on this course, still the difficulty of getting the ships in the rear brought up would have been increased.

The attack, it seems, was not made according to this lasking form. Sir GLORGE has said, he bore down upon the Zodiaque, by which expression, and by what followed, it must be understood that it was his intention not only to steer his own ship with her head steadily directed upon the Zodiaque, but that his other ships, in the same manner, thould be steered each with her head steadily directed upon the particular opponent.

In the profecution of which intention, and while the enemy had way ahead, at the rate, perhaps, of two miles and a half, perhour, the Yarmouth and every other thip of the squadron, of necessity, must have assumed a course forming each of them a curve, as represented in Plate XXVIII. Fig. 8.; which course, in mathematical disquisitions, has been termed the line or curve of pursuit.

The very specious and favourable aspect of this kind of attack, attempted so soon after that of the unfortunate Admiral BYNG, and considering also the case of the officers who commanded

manded the ships in the rear, who were disgraced on this occasion, will make the discussion thereof under a particular head by itself the more necessary.

OF THE CURVE OF PURSUIT.

By the curve or line of pursuit is understood that curve defcribed in the water by one ship in pursuit of another, when the ship in pursuit from the windward, in bearing down, shall steer her head continually directed upon the ship pursued.

Plate XXVIII. Fig. 8. Let F represent the ship pursued, to leeward, having motion ahead in the line F G, as required for good steerage. Let B be the ship in pursuit, two and a half miles right to windward; which distance being expressed by the perpendicular B F, let it be called the line of distance, or the line of common departure. And F's motion through the line of course F G, suppose it at the rate of two and a half miles per hour, let it be expressed by the Figures 4, 8, 12, in the line F G; and the velocity of B required to overtake F, must be greater than the velocity of F.

THEOREM.

To discover what space the ship F must run through in the line F G, before B, in describing the curve of pursuit, can over-

take F; fay, as the difference of the squares of the velocities assumed is to the product of the velocities, so is BF, the line of common departure, to the space FG that the ship pursued must run through before she can be overtaken. Thus, when the velocities assumed shall be as 5 to 3;—Say, as 16, the difference of the squares of these numbers, is to 15, the product of these numbers, so is 16 (of any quantity, surlongs, for example,) the distance of B right to windward at the beginning of the course, to 15 surlongs, the space required for F to run before she can be overtaken.

THE CURVE OF PURSUIT CONSTRUCTED MECHANICALLY.

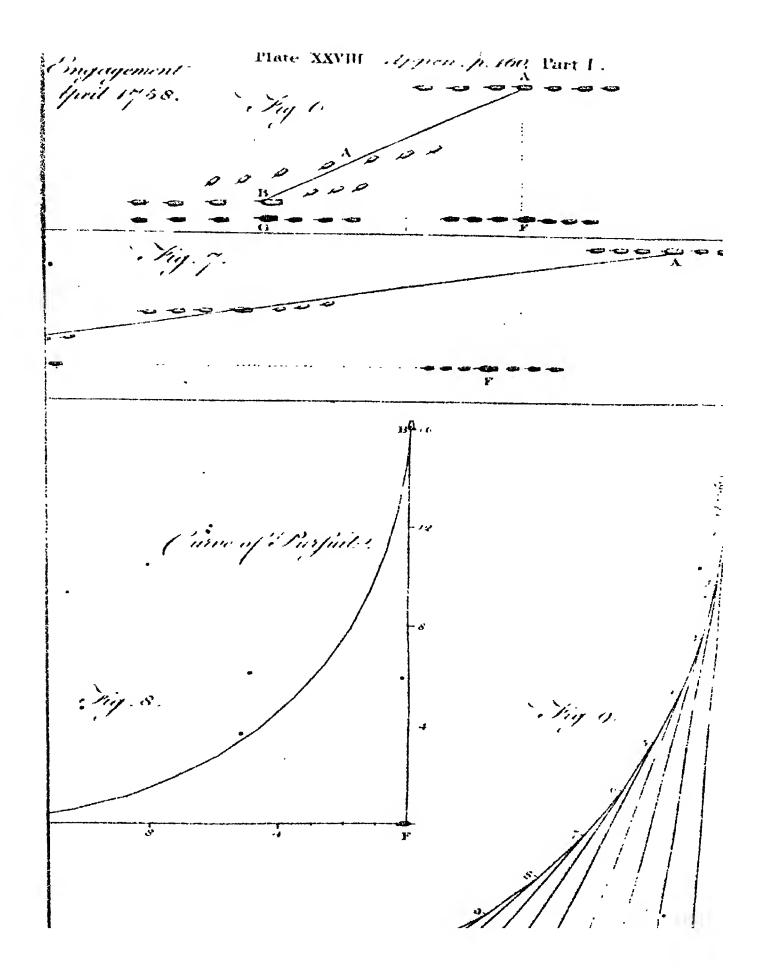
Plate XXVIII. Fig. 9. The line of common departure, F B, supposing it perpendicular to the line of course F G: Let any proportion, 5 to 3, be assumed: That while the ship F moves in the line of course F G through the sirst space No. 1., suppose it three yards, the ship B from the windward, by steering a course continually directed upon him, shall in the same time move through the space No. 1. in the curve of pursuit, at the rate of 5 yards; and, while F shall move through the space 1 2, or second division in the line of course, that B in the same time shall have run through the corresponding space 1 2 in the curve, being other 5 yards, and so on continually, protracting each their separate courses, in the proportion as 5 to 3, until they shall come in contact, or close along-side of each other, that is, until the lines of

their feveral courses shall meet in a point, as at G. Draw the lines 1 1, 2 2, and 3 3, &cc. and they will nearly represent the curve of pursuit.

OF THE APPLICATION OF THE CURVE OF PURSULT IN SIR GEORGE POCOCK'S ENGAGEMENT. +

That Sir George intended to make his attack in some such sultion, and that he attempted it with his own ship, the Yarmouth, there can be no doubt; but not having communicated his intention, or given it out in orders, or by instruction, to the commanders of his other ships, it is not surprising that this mode of attack, in the execution, did not come up to his expectation.

Plate XXIX. Fig. 10. After much previous practice of the manœuvre, had Sir George given instruction that each ship, in bearing down, should steer with her head continually directed upon her particular opponent in the enemy's line, then each of his ships, P, Q, R, with equal velocity assumed, would, along with B, the Yarmouth, have run down spaces, each in their several similar curves, equal to the divisions 1, 2, 3, 4, marked as velocities at the sate of 5, in the particular curve described by the Yarmouth, and in the same time in which the Zodiague, with her associates, would have moved through the corresponding divisions 1, 2, 3, 4, marked as velocities at the rate of 3, in the line



of course FG; then B, the British Admiral, with his three ships aftern, when arrived at the line CD, a station of sighting distance * which cuts the curve in the point numbered 10, (if the enemy had not gone off), could also have continued his course until his ship the Yarmouth, as well as every other ship of his squadron, might have come into contact, or close along-side, each of her particular opponent; that is, the Yarmouth in contact with the Zodiaque at G, and the three ships in the rear of the Yarmouth, with the three corresponding ships in the rear and aftern of the Zodiaque.

It is to be observed, however, that the Admiral, B, when arrived at the point marked 10 in the curve, as formerly remarked, within sighting distance, far from having got abreast of the Zodiaque, by this time arrived at the correspondent point 10 in its line of course, has got little farther; than abreast of H, the third ship aftern of the Zodiaque; and the three ships D, in Sir Grorge's rear, at this time, are lest aftern of the enemy's whole sleet.

The Yarmouth never was in this particular fituation at any time of the engagement. For, however well Sir Grorge's three thips aftern might have preferved their course, each in their proper curve, according to instructions, or according to the direction of their steerage with which they might set out in the beginning

^{*} Made parallel to F G; the enemy's line of course, about 400 yards distance, termed immediates pastol-shot, or half musket-shot. By Mr Bykg's engagement at does not appear that his van was within this distance, as musket-shot make not known, or playinght, to have taken effect in any of the ships even in that the same of the ships even in that the same of the same

beginning of the pursuit, it is evident that Sir George had not kept his intended curve: For, had he preferved his course in his proper curve, he would infallibly have been at the point number 10 in the curve of pursuit, when the Zodiaque was got to her correspondent point number 10 in the line of course FG.

From this fituation at the point 10 in the curve of pursuit, he must have passed along, and sustained the sire of the whole ships in the enemy's rear, before he could have attained a station at A, abreast, and at half musket-shot distance from the Zodiaque. That he never was in the situation at the point 10 in the curve of pursuit, as described, and did not pass along the enemy's rear, and receive their sire, may be presumed, since he has not told us; but he has told us, that he did not give the signal to engage (that is, to begin siring) till he was within half musket-shot of the Zodiaque, by which must be understood a station somewhere at A nearly abreast of the Zodiaque.

In which case, however much Sir George, in the beginning, might have wished to keep his course according to the curve of pursuit, yet, from farther consideration afterward, and while running down, foreseeing the consequences, he for certain made change, and had given his course the lasking form, as M N, in order that he might attain this station at A, abreast of the Zodiaque, at half musket-thot distance, which he said he did.

This change from the first intention in the Yarmouth's course was not a thing of that kind which could, in one instant, be comprehended by a signal; and, if it was not in one instant comprehended, and put in execution by the ships in the rear, of necessity they were to be lest considerably aftern.

But this reasoning, all the while, is founded upon the supposition, that each ship of the squadron, by her course and her velocity assumed, had or could, without previous practice, have preserved her station in the curve of pursuit, should it even have been allotted to her by the Admiral, which will not be admitted. For in such case, each ship in succession, of necessity taking the rule for her velocity from the ship immediately ahead, would imperceptibly and unavoidably get into her wake as a leader, and by that means the ships in the rear, one after another, would fall more and more aftern, from the very beginning of the course, in form as at E.

Plate XXIX, fig. 11. The curve of pursuit begun from a distance aftern, with the velocities 5 to 3 assumed as before; and if this distance F I shall be equal to the distance to windward I B, the Resolution will stand thus—As the distance of the squares of the velocities is to double the product of the velocities, so is the distance to windward I B, 16 surlongs to 30 surlongs, the space which the ship pursued must run through, before she can be overtaken; in which case, the ships in the rear making the attack, when arrived at a station of sighting distance, the line L M, parallel to F G, the course of the enemy's line of battle, will be left at a double distance aftern, as appears from the sigure.

Plate XXX. fig. 12. Again, suppose the course of B to be begun from right to windward, and that the velocities shall be as 4 to 2 (a double proportion); say, as the difference of the squares of the velocities 12, is to the product of the velocities 8, so is the dif-

tance to windward B F, 12-4ths of a mile to 8-4ths of a mile, the space which the ship pursued has to run before the can be overtaken; and supposing L M, the parallel line of sighting-distance, to be 440 yards as before, the ships in the rear, in approaching this station, will still be left astern about 400 or 500 yards.

From all which it may be concluded, that, whatever shall be the proportion and rate of the velocities assumed, or how much soever shall be the previous practice, the mode of attack, by this curve of pursuit, will in no way be found preferable to the mode in the lasking form; but will be found so much the worst of the two, as it will be more difficult in the execution, and the ships in the rear will be lest the farther aftern; and in general it is evident, that the curve of pursuit, though a curve well adapted to bring one ship into the wake of another, is not at all suited for bringing one ship abreast of another, and within a given distance.

With respect to general observations, they are the same as have formerly been introduced. By the nature of the attack, equally as in the engagements of Mr Byng and Mr Byng, the headmost ships must have approached the enemy, before it was possible for the ships in the rear to get into sighting distance. By the nature of this approach, the van and centre were disabled, before they could get into a position from whence, by retaliation, they could annoy the enemy. By the address of the enemy, as in Admiral Byngn's engagement, the rears of neither squadron had got into action. Though the Admiral, like Sir George Rodney, in his engagement off the Pearl Rock, had

the merit of great personal courage, yet the attack, as put in execution by his ship the Yarmouth, being nearly the same as that of the Sandwich, of course was attended with the like want of effect.

On the part of the enemy in this engagement, and fimilar to every one of the other five of this class described, the Admiral, Mons. D' Ache in the Zodiaque, so soon as he selt himself exposed to the British fire, quitted the line, and withdrew from battle, leaving his second and other ships aftern, not only as a cover to keep up a good countenance, and to amuse Sir George Pocock, but, each ship after another, throwing in their sire upon the Yarmouth in passing, by particular instruction, bore away in succession, to form a new line to leeward.

Admiral Sir George Pocock's fecond engagement, of the 3d of August 1758, being so much alike with that of the 29th of April, no new description will be necessary.

END OF PART 1.

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NAVAL

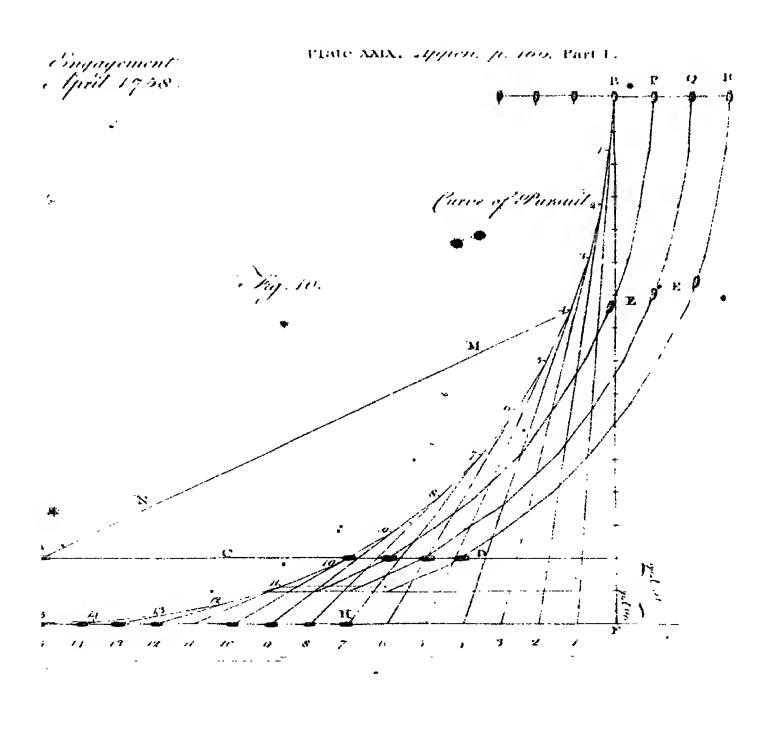


Fig. 11.

Plate XXX Appen your vaces endant on the bearing of the Win P

NAVAL TACTICS.

PAR-T II.

INTRODUCTION. .

N the first part of this work, it has been established, upon the clearest conviction, that the intention of our enemy, the French, in their mode of encountering our fleets, has constantly been to disable the rigging, and, if possible, to avoid the bringing their ships to a close engagement. It his been shown, no less clearly, that an Admiral, commanding an opponent fleet, and being in pursuit anywhere from the windward quarter, may have it in his power to bring the enemy either to. give him battle on equal terms, and in a close engagement, or otherwise to force him to abandon a number of his ships, let him be as thy, as artful, and cautious as he will. In this fecond part, after the same manner, we shall endeavour to demonstrate the practicability of forcing also an attack upon such an enemy, and with equal fuccess, from the leeward quarter. And as in the first part it has been proved, that the fleet to windward, by mak-

Y 2

ing the attack, will, by this, have attained a superiority over the sleet endeavouring to avoid the attack; so, there can be little doubt it will be found, that a fleet, by making the attack from the leeward, must also attain an advantage over an enemy, who is delirous of avoiding the attack by making off to windward.*

^{*} Great part of this subject, the attack from the leeward, having been executed almost twenty-six years ago, and immediately after the 27th July 1778, already a part thereof has been introduced in illustration of the action of that day.

—Vide Part I. Observations, Keppel's Engagement, page 103.

The ATTACK of FLEETS from the LEEWARD.

DEMONSTRATIONS.

SECTION I.

OF FLEETS WORKING TO WINDWARD.

THE following demonstrations, upon the working of fleets to windward, although perfectly known to all seamen, yet as they may afford some information to others not conversant on that subject, it is hoped they will not here be thought superfluous.

1. (Plate I. fig. 1.) Let us suppose a fleet of ten, twenty, or more ships to windward, as at F (Plate I. fig 1.), endeavouring to avoid being brought to an engagement; and another fleet of an equal number of ships some leagues to leeward, as at A, ardently desirous of getting up with F, and bringing him to an engage-

ment:

ment: If every thip of the fleet F, to windward, shall be found to tail equally well with every individual ship of the fleet A to leeward, then, unless some change of the wind or some accident shall take place, each fleet, in turning to windward, having uniformly kept their boards proportional, the distance between the two sleets will continually remain the same as at first setting off; and the fleet A to leeward will never be able to get within reach of his antagonist F: That is, the board A, to be made by the fleet A, making the same angle with the perpendicular line W W (the line of the wind), as the board F G to be made by the enemy F; and as it will be performed in the same time and with the same speed, the distance between the two sleets, when they shall have arrived at the points B and G, will be the same as when they were at the two points A and F, the places where they set off.

Again, supposing both fleets shall tack at the same time, and get upon a starboard course, B C and G H, then the two sleets, when they shall have arrived respectively at the points C and H, the distance between them will still remain proportionally the time as at first setting off; and the sleet A will never be able to get up with, or reach, the sleet F, his antagonist.

But if the wind, during the course of a few days, should make some change, and if some rigging should be carried away by an overpress of sail, which are accidents not to be prevented for any considerable time with sleets supposed to be engaged in a struggle of this kind; it is evident that such accidents will be of

more dangerous consequence to the sleet endeavouring to get off to windward, than to the sleet in pursuit from the leeward. As, for example:

Let us suppose the enemy's squadron in its progress to windward from H to F (Plate I. sig. 2.); that one of their ships, from being crippled, had fallen to leeward, as at the point G; is it not evident that she must be cut off by the very next board, which part of the squadron A shall make, as at C; or otherwise, that the squadron F, upon bearing away, or shortening sail, as at H, to protect this crippled ship, by falling within the reach of the squadron A in pursuit, must immediately be forced to come to action? Whereas, on the other hand, should any ship of the squadron A come to be crippled, and sall to leeward, as at B, she will still continue to be under the protection of the squadron A, and will not thereby be exposed to the sleet of the enemy.

Again, upon a supposition that the wind may change in the course of a few days, the following demonstrations will show, that a wind from few other points of the compass will make a change unfavourable for the squadron to leeward.

Let us suppose two ships, the one several miles to windward at F (Plate II. fig. 3.), endeavouring to get off, and the other in pursuit from the leeward at A; and let the wind be at west at W.

To show the effect of changes of wind upon these two ships, let this change be from west to north, at N N, in one instant; then

the ship A, which was several miles to leeward when the wind was at west apparently, will lye up with her course towards B, to windward of the ship F, now that the wind has got about to north, and evidently will have a course so much farther to windward (vide H G), though the distance between the two ships A and F may remain nearly the same.

Again, let A and F (Plate II. fig. 4.) be two fleets; and let the wind, in passing from west to north, have changed so gradually, that each fleet has had sufficient time to lye up and keep to the wind with the whole of their respective ships, extended in line of battle ahead, mutually as the wind shall shift: Yet, still in this case, the fleet A, which was 7 miles to leeward when the wind was west, will now have got to windward, the wind having come fully shifted to the north, as may be seen by course last of F, at the line H I, and course last of A, at the line C D.

For, if the fleet A can lye up to the wind two points at the station A, it will be able to lye two points up at the station P, when the wind shall have changed two points, and will do the tame at Q, and the same at the station R, and also at S, when the wind has got full to the north.

In like manner, by the flect F keeping the wind two points at the similar stations, and at the same rate of motion on the different and equal boards; the two sleets, when the wind shall have got to the north, will still be at the same distance from one another

NAVAL TACTICS.

another as before; but the fleet A, which was to leeward, will now have got far to the windward.

Fig. 4. Again, upon a supposition that the wind, in passing from west to south, has changed in like manner, so gradually, that each sleet shall have had time to lye up, as per lines L M and T U, then the sleet M, when the wind shall have come to the south, and the ship Z, will be sound as far to the windward of the ship U, as when the wind came round by the northern quarter.

From all which it may be conceived, that the leeward fleet in purfuit, by a fleedy perfeverance, will fome way or other at last get up with, and force an attack upon the enemy going off, either by getting to windward of him, or by fetching some part of his fleet from the leeward; and as this must be accomplished either while the opponent fleets shall be running upon the same tack, or when they shall be brought to pass each other on contrary tacks, the Attack of Fleets from the leeward quarter will naturally divide itself into two separate cases; and let the one be called, the Simple Attack, the other the Cross Attack.

If, By the Simple Attack, let it be understood to be that case, when the fleet A to legward shall be able to seach some part of the enemy to windward, and on the same tack (as per Fig. 3. plate III.)

2d, By the Grois Attack, let it be underflood to be that case, where the two opponent sleets shall be brought to pass one another on contrary tacks, as A and F (Fig. 6. plate III.)

SIMPLE ATTACK.

SECTION IL

WITH respect to the first of these, the Simple Attack, sew examples can be produced; for the French commanders, upon an apprehension of the smallest risk of being overtaken from the leeward, have hitherto found means to throw the sleets under their command on the opposite tack to that of the sleet in pursuit *.

But whether this shall have arisen from the enemy's anxiety of avoiding a shock, or from a natural consequence attendant on the necessary movements of two sleets on such occasions, certain it is that the meeting, or rencounter of adverse sleets, upon opposite tacks, have been more frequent than the rencounter of sleets on the same tack; and of which meeting, on opposite tacks, there are sour examples before us: That of the 27th July 1778, two others of the 15th and 19th May 1780; and, lastly, that of the 12th April 1782.

Which last, the 12th of April, though perfectly decisive in the end, was in the beginning of the battle so far alike, and of the same

^{*} Admiral Arbuthnot of the Cheft peaks a

fame nature with the three first, that the adverse fleets having met, and the leading ships of the enemy having gained the wind, (as in fig. 7. plate III.), the two fleets ranged past each other in opposite directions, each ship giving and receiving their mutual fire until the line of battle of the one fleet was completely extended abreast of the other, (as per fig. 8. plate III.); that is, when B, the van of the one, had got abreast of G, the rear of the other mutually. Of these several actions, the three first already have, in same measure, been described. With respect to the fourth, the 12th of April, the attention it requires is such, it would be improper to bring it into view until the whole subject on the attack from the seeward shall be completely discussed. In the mean while, by way of introduction to this design, it will be necessary to look back and recapitulate a few of the remarks formerly introduced, (Part I. p. 103, beginning No. 10.)

Z 2

RECAPITULATION OF A FEW OF THE REMARKS ON THE BATTLE OF USHANT, OF THE 27TH JULY 1778.

LIT us suppose two adverse fleets in contention to get to windward the one of the other; and, by disk of sailing, or by a change of wind, that the leading ships of the enemy F (sig. 9, plate III.) shall have gained the wind of the fleet A; it seems evident, if the van, or any part of the leeward fleet A, was to continue the line of, their first course A B, and were not all to bear away, as per course C C (sig. 10, plate IV.), that, with great adadvantage, the enemy's line of battle might be cut in twain (as at G, sig. 11. plate IV.), and have thereby their rear II separated from their van F (as per said sig. 11.) Again, by such an attempt, the course of all the enemy's ships, aftern of this attack, would thereby be so far stopped, or retarded, that a close engagement with the enemy's whole line must be the consequence; or otherwise their rear G, of necessity, must be abandoned by the van F, (as per sig. 12. plate IV.)

"Perhaps it may be faid, that the risk or danger of an attack of this kind might be greater than the advantage proposed. To which it is answered: As soon as ever we shall have the spirit and steadings to make the experiment, conviction will follow, that the risk and damage to shipping making the attempt will be found to be less than in any other mode of attack whatever.

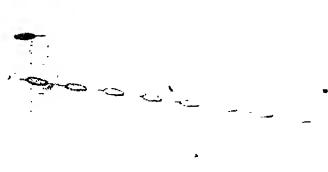




Fig. 8

Fig. 9

- Again, upon taking the subject in another view, suppose, for example, that two, three, or more ships (sig. 13. plate IV.) are passing each other in opposite tacks, at the rate of sive miles per hour; then will the velocity of the transit be equal to ten miles per hour; or, which is the same thing, let us suppose, for the sake of demonstration, the one sleet at rest, and the other in motion, at the rate of ten miles per hour; then each ship of the squadron, in motion will pass through \$80 feet in one minute of time.
- "According to which, then, each ship of the squadron A will pass each ship of the enemy F, with the interval between ships included, in one minute; that is, the will make a transit of 880 feet, or 300 yards (the general allowance of space for ships drawn up in line of battle) in one minute.
- "Therefore, if the two fleets did pass one another on the 18th of July 1778, at the rate of 5 miles per hour, and if it were possible that the loading of a ship's guns could be repeated once every minute of time, still each British ship could be exposed to the fire of each French ship during the space of one quarter of a minute only; that is, while the two ships were in direct opposition; and as there were 26 ships of the enemy, each ship, on the whole, could be exposed to a cannonade of six minutes only. And if the fleets had passed each other at the rate of two miles and a half per hour (a motion absolutely necessary to make a ship answer the rudder well), each ship could then be exposed to a fire of 13 minutes duration."

By fuch investigation only can it be explained, how two adverse fleets, amounting to 30 ships of the line each, carrying above 36,000 men, after having been brought in opposition of battle, and mutually sustaining a surious cannonade from above 4000 guns, besides musquetry; how, I say, they have been brought to be separated again without effect, without the smallest apparent decision; that is, without the loss of a ship on either side, and sometimes with scarcely the loss of a man, though the rencounter has often been said to have been within pistol-shot.

From all which it must be concluded, that the most artful management of fails, the closest approximation, or the most spirited cannonade, will avail nothing under such circumstances; and that it is in vain to hope that ever any thing material can be effected against an enemy's fleet keeping to windward, passing on contrary tacks, and delirous to go off, unless his line of battle can be cut in twain, or some such other slop can be devised, as has already been described.

CROSS ATTACK.

SECTION III.

MODE OF ATTACK FROM THE LEEWARD ILLUSTRATED.

Let us suppose two fleets, the one to windward, endeavouring to make off as at F (fig. 14. plate IV.), and the other to leeward, having sufficient desire to get up with him as at A. We hope it will be granted, that A, the fleet in pursuit from the leeward, within the course of a few days, may be able to get up with, and bring the other, his enemy F, to some rencounter. Or, otherwise, that F, the fleet to windward, may have the utmost difficulty to make his escape with his whole line entire. Also, that this rencounter, as it hitherto has been, may continue to be most frequently on an opposite tack.

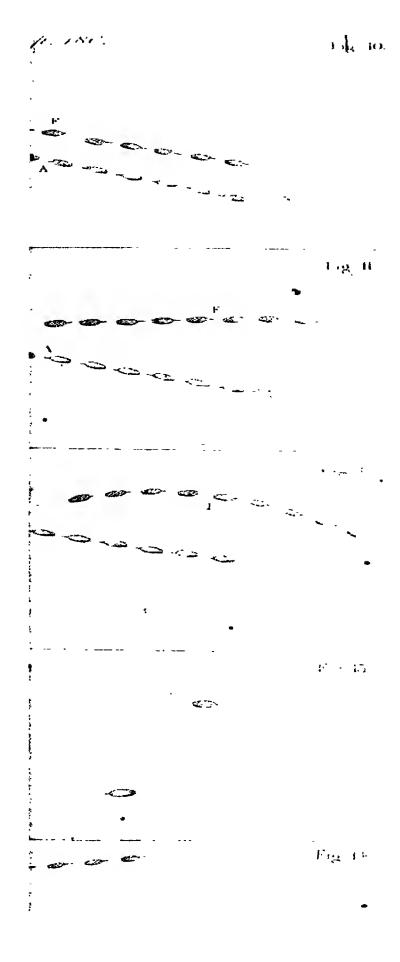
Again, let us suppose that the enemy F (sig. 14. plate IV.), from the desire of getting off, will have exerted his whole art of scamanship to enable him to avoid the attack, it follows, that the fleet A in pursuit, though not able to fetch the van of the enemy now far got to windward, as at F, may still be able to fetch a part of his rear, as at G (sig. 15. plate V.); and as this may be conceived to take place with his headmost ships in the first in-stance.

stance, we will, for that reason, begin with these examples, when this manœuvre, of cutting an enemy's line with the greatest propriety, can be put in execution by the leading ships of the squadron in pursuit.

EXAMPLES OF CUTTING AN ENEMY'S LINE OF BATTLE BY THE HEADMOST SHIPS OF THE SQUADRON IN PURSUIT IROM THE LEEWARD.

- 1. VV HEN the leading ships have fetched the rear of the enemy, suppose the three sternmost ships.
- 2. When the leading ships have setched the centre of the enemy's line.
- 3. When the leading ships shall have fetched the fourth or sith ship, and shall cut off the van from the centre and rear of the enemy's line.
- I. WHEN THE LEADING SHIPS SHALL HAVE FETCHED THE REAR OF THE ENEMY'S LINE, SUPPOSE THE THREE STERNMOST SHIPS.

Let it be supposed, in the course of some fortunate trip in working to windward, that any number (say three or sour) of the headmost ships of A have had it in their power to setch an equal number of ships of the enemy F (as at G, sig. 15. plate V.).



And let it be supposed, that the headmost, or any one of these ships, by keeping her wind, shall attempt to pierce between any one of the sternmost of the enemy's ships, between the third and fourth, for example, at G, (sig. 16. Plate V.); the consessed will be, that the ship making this attempt will force her way through the interval between these two ships, or otherwise, by getting foul, or running aboard of the third ship, (as in sig. 17. Plate V.), will not only stop her course in the line, but will also throw the ships aftern of her into disorder. In whichever case this shall happen, here are three sternmost ships of the enemy which will be forced to seeward, as at G (sig. 13. Plate V.), where they must be entangled with the remaining part of the ships of A, which may now be pushing up, as at B, to prevent their escape.

If this manœuvre shall be put in execution happily, and with spirit, we have a right to think it will succeed; and that the enemy, F, must inevitably lose these three ships. For his van, by the supposition, having by this time got far to windward, as at F, the matter would be determined before assistance could be given; and, in attempting to give this assistance, ho would be reduced to the necessity of making the attack as at F, (sig. 19. Plate V.), which he before had endeavoured to avoid, and when in possession of his whole force; therefore he will abandon these three ships; as A, by this time, may be supposed to have environed them with sufficient force.

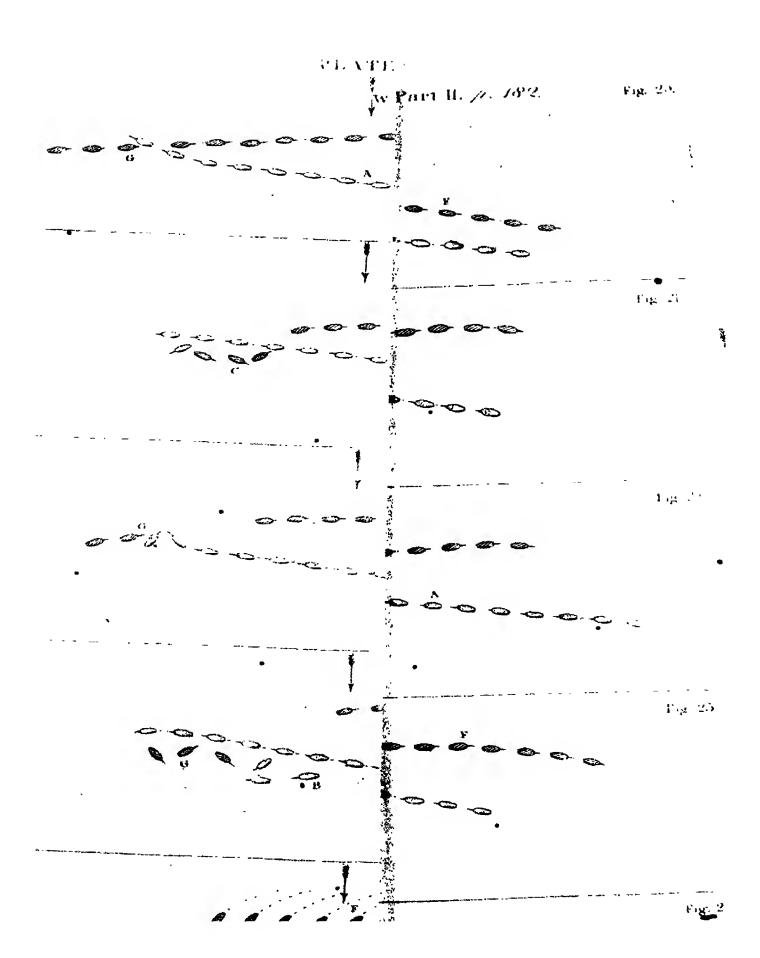
Aa

Again,

Again, suppose the enemy, upon perceiving the danger his rear must be exposed to, in place of holding his wind, (as in fig. 17. and 18.), shall bear away along the line of A, (as in fig. 20. Plate VI), nothing can be gained by this; for it must be done on equal terms, exchanging a sew shot only as he ranges past to windward, and must still be under the necessity of giving up his three ships at last.

WHEN THE LEADING SHIPS SHALL HAVE FETCHED THE CENTRE OF THE ENEMY'S LINE OF BATTLE.

WHEN the leading thips of the fleet A (fig. 21. Plate VI.), shall have fetched the centre of the enemy F, the ship B, which shall attempt the passage, as in the former case, will either make her way through the interval which will be given her, and the thip G, with all the thips aftern, will be forced to lecward, as in fig. 21.; or the ship B, by running aboard of G, and both ships coming to the wind (as per fig. 22.), the whole ships aftern of fuch attack will be stopped and retarded. But, in whichever of these ways it shall take place, the line will be cut in twain (as in fig. 28.); the rear will be reparated from the van; and the whole ships of the enemy aftern, will be forced to leeward (as in fig. 23.) Meanwhile; the van A (Plate VI. fig. 24.) ranging to windward, and B, the centre and rear of A, by this time come up, the rear of the energy G prevented from gotting ahead, and finding it impracticable to regain their van F, will prepare to put before the wind, as in fig. 24.



- G, (Plate VII. fig. 25.) The rear of the enemy putting before the wind encompassed by the whole force of A, van and rear.
- A, The ships in the van, after having forced the rear of the enemy to leeward, are now put before the wind in pursuit.
- B, The centre and rear of A having prevented the enemy's rear from rejoining his van, are now in pursuit on his larboard quarter.
- F, The van of the enemy (evidently) not having it in their power to prevent the effect of any part of these movements.

WHEN THE LEADING SHIPS SHALL HAVE FRICHED THE FOURTH OR FITTH SHIP, AND SHALL CUT THE VAN OFF FROM THE CENTRE AND REAR OF THE ENEMY'S LINE.

THE headmost ships of the van of A (sig. 26. Plate VII.), having setched near the van of the enemy, and having cut his line between the fourth and sisth ship, and having ranged along to windward, as at B, his ships are now backing sail to give time for the remaining part of his sleet to get up, &c. That is, while D, the rear, having bore as per course C C, is preparing to intercept the enemy.

By which means the van A (fig. 27. Plate VII.) having got to windward, and the rear B having prefled forward, the remaining part of the enemy's fleet now diminished by four ships, the A a 2

number cut off, must be forced to leeward, where an action sufficiently close must ensue.

- Fig. 27. A, The van in pursuit and endeavouring to get upon the starboard quarter of the enemy.
 - B, The rear division slicking close upon his larboard quarter.
 - G, The enemy inferior by four ships.
 - F, The enemy's four ships now cut off.
- OBSERVATIONS ON THE THREE FOREGOING CASES OF THE ATTACK WHEN MADE BY THE HEADMOST SHIPS OF A SQUADRON.

other part of the line of a fleet going off, so the attack will be the more affured of success.

The fecond, the attack on the centre, or anywhere near the centre, as the object is greater and the fuccess equally probable, so ought it always to be attempted, if possible, to be fetched by the van of the fleet in pursuit.

The third, under which is comprehended the attack upon the van, or anywhere a head of the centre, as it must be more upon an equality with the enemy than any of the former two, so the fuccess must therefore be more doubtful; and particularly where an enemy shall be desirous of fighting.

Fig. 28. Again, let us suppose the leading ship of the squathron A, after a long struggle, to have gained the weather gage of the enemy, and are now ranging past him to windward, giving and receiving a heavy fire, (as per sig. 28. Plate VII.)

This supposed advantage, which, notwithstanding it has upon every occasion been the object of our most earnest efforts to obtain, must evidently be of as little importance as the ranging to leeward after having failed of gaining the wind (as per fig. 29. Plate VII.), a movement which we have long been well acquainted with.

- OF CUTTING THE ENEMY'S LINE WITH THE FIFTH OR SIXTH SHIP, OR ANY ONE NEXT ASTERN OF THESE, IN THE VAN OF THE LINE, BUT LET IT BE THE FIFTH SHIP, FOR EXAMPLE; WHICH ALSO, LIKE THE FORMER, MAY BE DIVIDED INTO THREE SEVERAL CASES.
- 1. The attack on the rear of the enemy's line with the fifth thip from the van.
- 2. Of cutting the enemy's line, at the centre, with the fifth thip.
- . 3. The attack on the van of the enemy's line, with the fifth thip.

THE ATTACK ON THE REAR OF THE ENEMY'S LINE, WITH THE LIFTH SHIP FROM THE VAN.

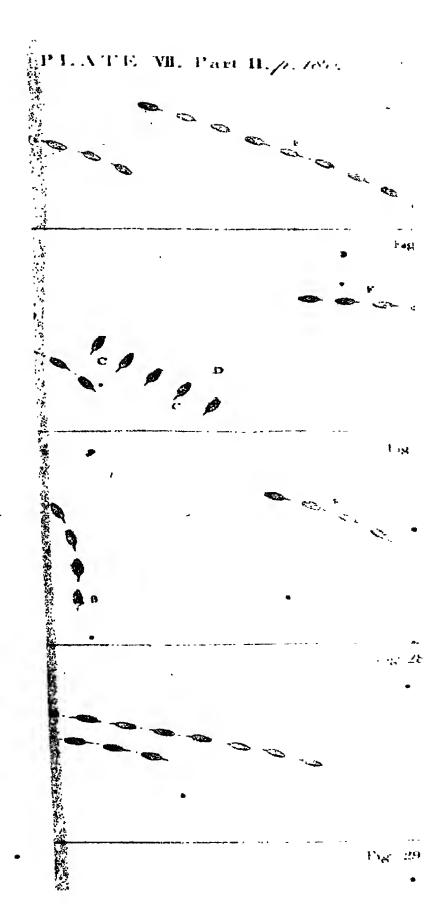
Fig. 31. Plate VIII. In which, let it be supposed that it shall be the lot of A, the sifth ship from the van, to make the attack, and cut the line of the enemy; and let this be between the fourth and sifth ship of his rear at G; while, in the mean time, the sour headmost ships B, after having stretched under the lee of the four ships G, are preparing to put about and stand after them, on the same tack.

Fig. 32. Plate VIII. The consequence of which will be, that these sour ships C, having already received the sire of eight thips, A and B, will at last be stopped, and forced to leeward, by the weight of the centre and rear now coming up, as at D; while I, the van, not foreseeing, or perhaps not having it in his power to prevent this missortune in his sear, may be much more desirous of making off to windward, than of ranging along the line of A, as at H.

A, The fifth thip, with those aftern of him, which had cut the line and had gone to windward, now put about in pursuit of the four thips G.

B, The four headmost ships of A, which ranged to leeward, now put about also in pursuit.

lig. 33. Plate VIII. thews the inevitable ruin of these four thips G, driving along before the wind, and encompassed with eight



eight ships, A and B, the centre and rear following after, as at D. F, The van of the enemy going off.

OF THE CUTTING THE ENEMY'S LINE AT THE CENTRE WILLII

Fig. 34. Let it be supposed that the sisth ship A has been appointed to cut the enemy's line at the centre, and that the four leading ships B, are in course ranged along under G, the enemy's rear.

Fig. 35. Plate IX. The consequence will be, that all the ships of the enemy G H, which were aftern of this attack, will not only be forced to leeward by A and the ships aftern who followed him to windward, but will be stopped in their way ahead, and must be pressed farther to leeward by the remaining part of the sleet coming up at D. By which time it may be supposed that the ships aftern in their rear, seeing the stop ahead, will be preparing to put before the wind, as at H, when a complete rout of the whole of this division of the enemy must follow.

B, The four headmost ships, having ranged past the enemy, are putting about to cut off their escape towards K.

F, The enemy's van going off.

THE ATTACK ON THE VAN OF THE ENEMY'S LINE WITH THE FIFTH SHIP.

In this attack, as well as that of the former case, the danger to which the four headmost ships may be exposed is so great, that that it is not probable that either the one or the other will often be attempted.

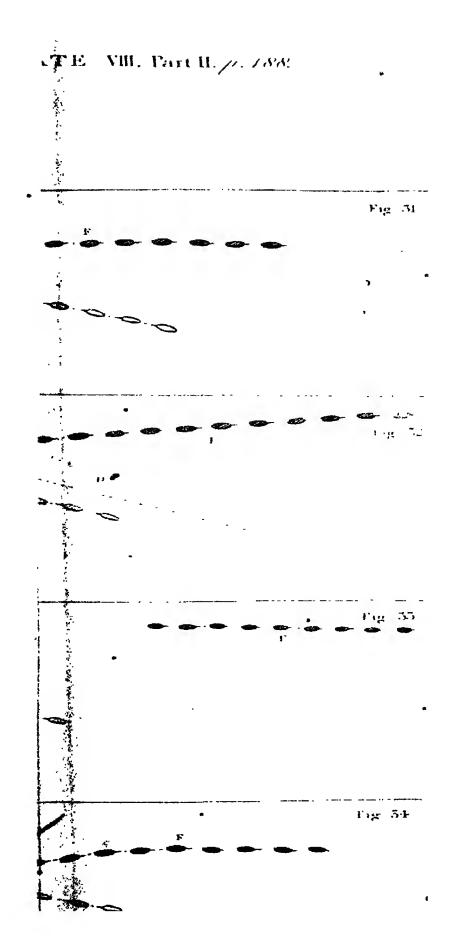
THE ATTACK WITH THE CENTRE.

FIG. 36. PLATE IX.

Lift us suppose that the leading ships of the sleet A, having setched somewhere in the van of the enemy, and that they have tanged along the whole of their line, and under their lee; and that B, the headmost of these ships, has advanced nearly abreast, or in immediate opposition to the sternmost of the enemy's ships G; and, at the time that some of the heaviest ships D in the centre, having kept their wind, shall have cut the line somewhere near the enemy's centre, at F, in like manner as described in the sormer cases.

Fig. 37. plate IX. The enemy's fleet having been cut in twain in this manner, their van F from their rear G, the separation will be such, it will be next to impossible that these two divisions can ever be re-united together again. But the van F and the rear G making two distinct objects, the pursuit, with propriety, ought to be confined to either the one or the other, as the attempt to carry both evidently must be inconsistent. And whereas, in the course of the preceding demonstrations, the whole force of the fleet making the attack, has, of necessity,

been



been more particularly directed against the rear division, in preference to that of the van of the enemy; and as the same cause for this preference evidently sublists in this case, as well as in any of the former, we will proceed, in the first place, with the demonstration of the attack upon the rear G.

(Fig. 37. Plate IX.) The headmost ships of the rear division of the enemy having been forced to the leeward by A, the ship which cut the line will still be continued to be pressed farther and farther down the wind, by the additional weight of the ships aftern coming up in succession as at B.

C, Some ships aftern of the ships B, preparing to bear away and stand after the enemy's rear division G.

D, The headmost ships of the van having already ranged past the enemy, and being assured of the improbability of any part of his rear division being ever able to get to windward, are preparing to put about, to be in readiness to follow which way soever it shall direct its course.

F, The van division of the enemy thus separated from his rear, and seeing the danger it must be exposed to, and that it will never be able to get to windward, are putting before the wind, as well to effect a retreat as to take all chances of effecting a junction with the ships of the rear, which may afterwards be so happy as to make an escape.

Fig. 38. plate IX. shows the attack with the centre a little far-

- A, The thip which cut the line, and part of those ships which sollowed up after him, still ranging past to windward, and preparing to put about; in the mean while are keeping up a heavy raking five upon the enemy going off.
- G, The rear division of the enemy, having the greatest part of them disengaged themselves of the van of their adversaries, are endeavouring to make off, by putting through the gap.
- B, These ships having stopped the headmost ships of the rear division of the enemy, and having forced them to put before the wind, are preparing to sollow him.
- C, The rear of A, having now pushed forward, will be in sufficient time to get close upon the larboard quarter of the enemy, and keep by him wheresoever he shall go.
 - F, The van of the enemy.
- Plate 10. fig. 39. G, The rear division of the enemy completely encompassed by the whole fleet, viz.
- A, With the ships which cut the line and went to windward, now carrying every fail in pursuit.
- B, The ships in the rear having had sufficient time to come up, and are now bearing upon the larboard side of G the enemy.
- D, The ships of the van keeping close upon his starboard side.
- F, The van of the enemy putting before the wind, and anxiously attending the issue of this unequal contest.

Notwithstanding it must already have been self-evident, why the profecution of the attack on the rear of the enemy's line, and around all of a fudden to the west at W, that there was not time to arrange the thips accordingly. Again, let us suppose this to have taken place near day-break, that there was a fog so thick that the situation of the ships could not be discerned, and that, unsuspicious of the neighbourhood of an enemy, which could be able to contend with them, they were careless, but that they were firing guns as signals for restoring their intended order.

Again, let us suppose an opponent sleet A, in the course of a cruise, and upon the look-out, that he shall have heard the above signals, and, upon the clearing up of the fog, that he shall discover this enemy in the circumstances as described, but extended to such a length from windward to leeward, as to satisfy him, that, although their numbers were great, yet it might be possible to attack them with much advantage. It might be reasoned thus: The right wing F, of this enemy, is at so great a distance, and so far to leeward of the lest wing G, that should an attack be made upon this lest wing, so far to windward, and this should be done with celerity, and before any material change could be effected in the disposition of their force, it will be next to impossible for this lest wing G to receive the sinallest assistance from F, the ships so far to leeward.

Plate XI. fig. 43. Accordingly, let us imagine that this opponent A, with his fleet, although inferior in number, as two to one, shall push on, with every fail set, and at right angles, that he shall cut asunder this enemy's line abreast at B, but in such proportion that he shall be superior in sorce to the ships G to windward, so cut off and separated.

Plate XI. fig. 44. Again, suppose this fleet of A to have passed on ahead towards the south at C, and that the whole of the force, and in particular the rear, shall have tacked and come up again with G, is it not easy to conceive, that this unfortunate division being in this manner cut off and prevented from slying to leeward, must submit to superior force, while, in the mean time, their friends, so far to leeward at F, after attempting every thing they can, will not have it in their power to give them the smallest assistance? In this singular case, it must be observed, that the several ships of the fleet A, in making this attack, must be on equal terms with those of the enemy, ship for ship, with their heads in opposition to each other.

END OPPART II.

ILVAI.

not on the van, has conftantly been confidered, in the preceding demonstrations, as the object of greater attention, it is still hoped that the following reasons will not prove unacceptable.

Because a part of the force, by the supposition, having been detached, and already far advanced in the attack of the enemy's line *, it would be a manifest impropriety not to follow the blow, and still more unpardonable not to give the necessary support to the few advanced ships, (BB, sig. 31. and 34.), which otherwise might be left at the mercy of the enemy's rear.

The pursuit of the rear is also more immediately practicable: For while the ships in the van D, which have ranged past the enemy's line (sig. 38.), are putting about to entangle his sternmost ships cut off, the centre ships of A, together with his rear B, having now got almost in contact with the ships in the rear of F, are preparing to surround them.

Whereas, in the pursuit of the van, the headmost ships of the enemy having at the time in question got above three miles distance even from the sternmost and nearest ships of A (sig. 40.), and above nine miles distant from his headmost ships; to put about ship, and get up with the van of the enemy at F, that is, to recover the time lost, would be a work of great difficulty.

B b 2

DEMON-

Vide the four ships at B (sig. 31.); the four ships at B (sig. 34.; 30! more farticularly the ships in the van at B (sig. 36.)

DEMONSTRATION.

Plate X. fig. 40. Let A be the van division, consisting of 18 ships, which have ranged past to the northward; and let B, which cut the enemy's line, be the ship at the head of the rear division, consisting of eighteen ships likewise. Then, as 300 yards is the space usually allotted for each ship, 6 ships will require a space of one mile *; and 36 ships, the number of the sleet A and B, will require a space of six miles. But the van of the enemy F, supposed to consist of 18 ships also, will likewise require a space of three miles. And as it is evident, that a space of six miles must be required for extending the whole line of the sleet A; that is, from C to D, and a space of three miles must be required for extending the van of the enemy F; then the whole distance between the headmost ship of the sleet A, and the headmost of the sleet of the enemy; that is, the distance between the points C and H, must be a space of nine miles.

G, the rear of the enemy on the point of being furrounded.

big. 40. By the profecution of the attack upon the rear division, you will have your whole force, van and rear, undivided, say 36 thips combined against 18 ships, the number cut off from the van division of the enemy. Whereas, in the case of pursuing the van, it must be evident, that your force being divided, the rear of your line only, after putting about ship, can with advantage be employed in the chase of the van of the enemy, now got to the distance of three or four miles; and if overtaken, to be fought

fought with upon a perfect equality; while at the same time the ships in your van are either rendered useless, by having stretched too far ahead, or, at the best, will be obliged to follow the rear of the enemy, now got many miles to leeward, and equal in number, ship for ship, if ever they can be overtaken.

Fig. 41. Is supposed to show the van A, in the act of wearing to stand after the rear of the enemy G; while B, the rear of A, is supposed to get upon the larboard tack to stand after the van F, and prevent his junction with his rear G.

Upon the whole of this investigation, Part I. and Part II. with respect to the nature of both attacks, it may be concluded, that the attack from the leeward quarter can be executed with the greatest number of advantages, of which it is not one of the least, that when a ship of the leeward sleet comes to be crippled, she will still continue to remain under the protection of her friends. Whereas, on the contrary, should a ship of the sleet to windward come to be crippled, she will fall immediately into the power of her enemies, (as per fig. 2. plate 1.)

SECTION IV.

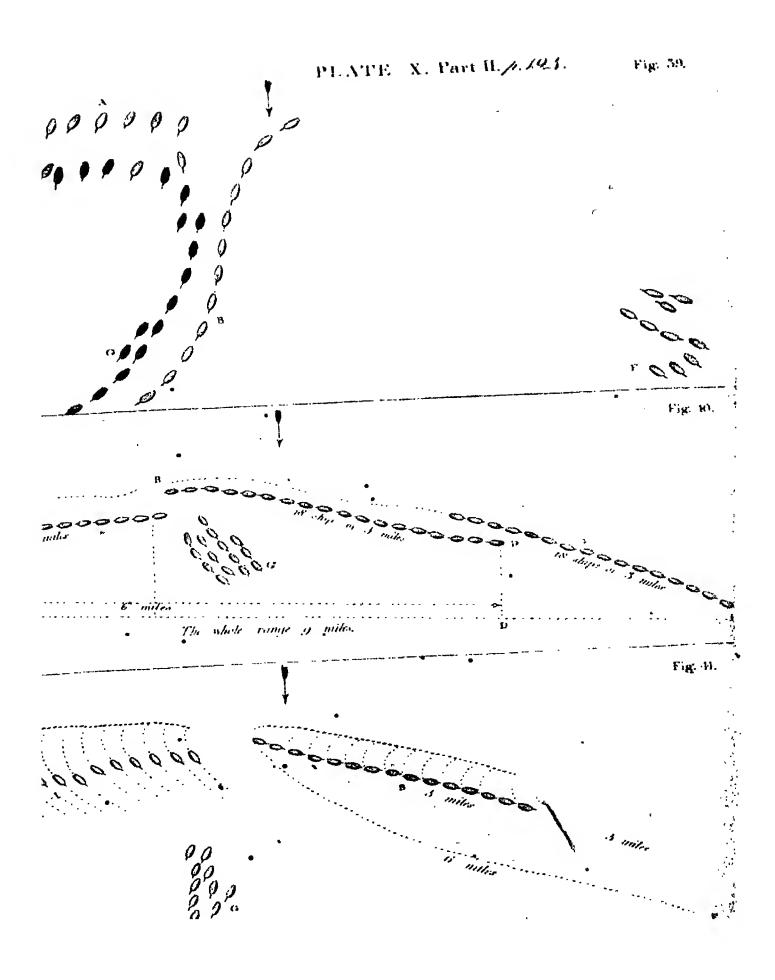
THE PIRPFNDICULAR ATTACK, OR THE ATTACK AT RIGHT ANGLES.

The following case, not very probable indeed, but as it some time or other may happen, and as it has some affinity to the 'attack from the leeward, is introduced in this place.

Plate XI. fig. 42. Let us suppose the wind at west at W, and the numerous fleet F G in an irregular and disorderly line abreast, extended to a great length from windward to leeward, that is, from the western to the eastern quarter, and let them be proceeding on their way to the northward from F towards A. At A, let an opponent sleet be discovered ahead at some miles distance, and suppose this sleet A shall be greatly inferior in number, yet still the sleet F G must be considered as in a very dangerous situation.

How the fleet F G has got into such a situation, is not so easy a matter to be explained, unless we shall be allowed to imagine, that its being found extended in a line abreast from windward to leeward, might be accounted for in this manner; that having, for some time before, been working to windward, with the wind either at south at S, or at north at N; and afterwards the wind coming it

around



NAVAL TACTICS.

PART III.

AN

HISTORICAL SKETCH

O F

NAVAL TACTICS.

SINCE the study of NAVAL TACTICS is of the greatest importance to this Empire, and since the abilities and skill of British seamen, in the conduct and management of single ships, are so manifest, that nothing higher has existed in any one prosession or department of life; it is therefore the more worthy of inquiry from what cause or accident it should have proceeded,

Cc

that so little progress has been made, in the most important part of the subject; I mean, the mode of arranging and conducting of ships, when assembled in great sleets, for the purpose of advancing to battle.

It is not, however, intended that the Naval Tactics of the ancients should be understood to be affected by what has been said; on the contrary, from history, we are made to believe that the conduct of their commanders, in most of their military operations at sea, was founded on principles equally applicable, and equally understood, with those which governed their military operations by land. Of this, the battles of Salamis, of Actium, &c. are examples.

That Naval History, in modern times, has not been so perfect in its information, may be admitted, if it is true, that, of all the mamerous engagements at sea, with the Spaniards, with the Dutch, and with the French, spirited and successful as they sometimes ecre, not one satisfactory plan or description has been obtained, by which even the arrangement or movement of the different leets could be discovered, more early than that of Admiral Marrangews, in 1744; nor one, from which an idea of any system, of either attack by delence, can be formed, more early than that of Admiral Byno in 1756.

train a diffinction to remarkable as this, an idea has been fuggetted, of having Naval History divided into Periods, in which, by comprehending and diffinguithing the particular changes of the weapons, in the shipping, or in the modes of practice, some cause, some essential error in principle, some desect in conduct, will be discovered, from whence should have originated this singular difference of information, between the Naval Tactics of ancient and modern times; for it never can be imputed to the historian alone.

•The History of Naval Tactics may therefore be divided into the following Periods:

The FIRST PERIOD will comprehend the time in which the progressive motion of ships and sleets, advancing to battle, had continued to be dependent upon, and confined to, the propulsive power of the oar, and while the decision of the contest was entrusted to the sword, as in the sea battles of antiquity, Salamis, Actium, &c. as before mentioned; with which also may be included the battle of Lepanto in 1571.

The SECOND PERIOD includes the time that fails became the necessary, and almost the only means of the progression of ships, now of greater dimensions, more unwieldy, and no longer manageable by the exertion of the men within by pars. This Period begins with the Spanish Armada, comprehends the engagements between the English and the Dutch, together with the battles of Bantry Bay, Beachyhead, La Hogue in the seventeenth century, and of Malaga in 1719, of none of which have we been able to procure any particular plan or description, down to the year 1740.

The THIRD PERIOD, then, with propriety, will begin with those engagements of which we have been able to give a particular plan and description; that of Admiral MATTHEWS in 1744, including Admiral Byng's engagement in 1756, Sig George Pocock's in 1758, together with those of the AMERICAN WAR, from the year 1778 to 1782.

The year 1782, so much distinguished by extraordinary exertions of naval ability, at the same time that it will form the commencement of a FOURTH PERIOD in the History of Naval Tactics, will also give occasion to add a Fourth Part to this Work.

PERIOD

PERIOD I.

As long as the progressive motion of thips and fleets, advancing to battle, was dependent upon, perhaps confined to, the propelling power of the oar, and the decision of the contest was entrusted to the sword, so long the principles of arrangement and disposition of force, whether at sea, or at land, setting aside the more immediate influence of storms of wind, could not but be nearly alike. For, when it is considered that the men engaged in both cases, at sea and on land, were often the same, actuated equally by courage or revenge, by sear or despair; that the means of advancing and retreating, and advancing again, were equally in their power, and the weapons, offensive and defensive, nearly the same; ships of war, with their complements of men on board, under such circumstances, not unaptly might be said to bear a near resemblance to cohorts, or battalions of infantry, or even to squadrons of cavalry, in the shock of battle.

Again, when we consider that ships, in those ancient days, were of small fize, of little draught of water, and unembarrassed by the abbing and slowing of tides, as in the Mediterranean; that, by keeping close by the shore at all times, they could be concealed or covered behind headlands or islands; sleets of

this description, composed of numbers of ships, in like manner might be confidered as refembling numerous corps of troops affembled and acting as armies at land, not only because they could form ambufcades or stratagems, but also could, on similar principles, attack, fecure, or defend a ftrength, or ftrait, choosing and occupying their ground at pleasure, as at Salamis, or Actium, and as in many other inflances exhibited between the Romans and Carthaginians, which it is needless to mention. And, to extend the bounds of this period, the battle of Lepanto, in 1571, may be included; which differs only in this respect, that gunpowder was then known and ufed, but fimilar to, and even firitly connected with, ancient practice; in fo far, that the conteft, notwithstanding this knowledge of gunpowder, was decided by the fword alone. The veffels engaged, if not precifely of the same construction, were still about the same size; and were, in like manner, propelled in their motions with oars, by the manual exertion of the men on board.

That a fleet of this description, in these circumstances, when to windward, had advantages over the fleet to leeward, will not be denied. When advancing to make an attack, the effect of their impetus or shock must have been the greater from their having the wind in their favour; and, when desirous of declining an engagement, it was more in their power to retire, and more dissicult for the leeward fleet to get up with them. But, in advancing to battle, both fleets were upon an equal footing, propelled by their oars, each galley having her prow opposed to that of her adversary. Whatever, therefore, were the

weapons in use, catapultas, balistas, or cannon thot, as at Lepanto, placed, as they were, as a battery, in the fore part of the vessel, whether in making or sustaining an attack, neither sleet, in this respect, had any particular advantage over the other, whichever of them was to windward or leeward.

PERIOE

PERIOD II.

Out the bounds by which a fecond period in naval history may be distinguished. The extension of commerce and naval power to America and to the East Indies, while it protracted the length of voyages, increased also the hazard of the sea. The use of great guns being introduced, while at the same time they were increasing in weight and dimensions, were also multiplied in number, sometimes to the amount of an hundred on board. Ships, for these reasons, requiring to be of stronger construction, large and unwieldy, and no longer manageable by the manual exertion of the oar, were obliged to have recourse to the sail, as dependent on the wind alone, for carrying the requisite manageuvres into execution.

OF A SHIP, COMPARED WITH OARS.

But fails, however necessary for the managing of the motions of ships of larger construction, compared with oars, were inadequate to the various operations and movements required in the ancient practice and mode of battle. In a calm, they were of

the motion of the ship, little more than one half of the plane of the horizon, and this only to leeward.

OF CANNON SHOT, CONSIDERING ITS EFFECT AS COMING FROM THE PROW OF A GALLEY, OR FROM A SHIP'S BROADSIDE.

When guns were planted as a battery in the forecastle, as they generally at sufficient a galley, the application of their force, though inferior, at least with respect to number, was still in the same direction with the line of their course, and which course was perfectly under the command of the people within. But when planted on the sides of a ship, their force and essect, from the greater number, though irresistible compared with a galley, yet being at right angles with the line of her course, and this course depending upon a foreign agent, the wind, and not under an equal command of the people within, the effect and consequences of course became so completely changed and different, that every former idea of naval tactics was immediately over-turned.

In the mean time, even during this extraordinary transition of circumstances, the naval exploits and enterprises were, many of them, spirited, and though not all of them decisive, were constantly marked with strong effect. But when the ship itself, the means of moving that ship, and the weapons, were undergoing transitions so very extraordinary, it is not easy to conceive,

that conduct adapted to fuch novelties could not at once be established.

In the Introduction *, many of these exploits have already been enumerated; but how far the mode of conducting them was or was not the result of any particular system, remains yet a matter of inquiry.

OF THE SPANISH ARMADA.

PHILIP the Second, possessed of Spain, Portugal, and the riches of America, in planning the armament of the Spanish Armada, confident, and trufting in his great fuperiority, thought only of gratifying his refentment against ELIZABETH and her subjects. His thips being constructed with lofty buildings at head and stern, which, like castles, might overtop and command the decks of the smaller thips of the English, neither himself nor his admirals were aware how unfit fuch unwieldy, ill-constructed, and, if possible, worse manned vessels, were for navigating seas that were narrow, and in a northern climate, and where, at the fame time, there was not one friendly port to leeward fufficient to receive or afford them shelter in case of acci-But this cumbrous fleet, (irrefiftible in his imagination), dents. on approaching the Channel, while the ships of the English were every where to skulk or fly before it, was to proceed to the eastward to take on board the Prince of PARMA with his troops, collected in the Low Countries, and, without interruption or difficulty

ficulty of any kind whatever, was to enter the Thames, and at one blow to overwhelm FLIZABETH.

On the part of the English, where can a more illustrious example of naval skill and foresight be met with, than in the conduct displayed in accomplishing the defeat and ruin of this Spanish Armada, in which the prudence of sustaining a defence, by suffering that immense armament to waste its force in an idle contention with the winds and waves, was no less conspicuous than the intrepidity and perseverance with which the repeated attacks were made?**

OF THE BRITISH CHANNEL. *

That an estimate may be made of the probable success, or of the consequent hazard and risk, to which a numerous armament of great ships, engaged in an hostile enterprise of this kind, may be exposed, the British Channel should be carefully considered:

In the first place, as a barrier or boundary, defending and dividing us from all the rest of the world:

In the next place, as a sea, narrow, winding, and contracted by head-lands, in which the navigation, with all the skill and attention that can be given, is both difficult and dangerous to mariners, even the most familiar with it.

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^{*} See Introduction, p. 8. Part I.

As a barrier or boundary, it forms one continued canal, connecting the German and Northern Oceans with the Atlantic, and extends in length to above 1000 miles. The banks of this canal, on the British shore to the fouth, where washed by the Channel, and opposite to France, far from being open and easy of descent to every invasion, as we have been made to believe, like this of the Spanith Armada, or any other of them, with which, as bugbears, we have been so often and long threatened, the coast is hold and dangerous; and if it should be accessible in any one particular and more interesting spot, as at Portsmouth, the country behind and within is so strong, that from the south, or across the Channel, every attempt to approach the capital, or to overrun the kingdom, with common attention given, must always be defeated.

Confidering the Channel as a fea, narrow, winding, contracted and broken by head-lands, it is affected by rapid tides, forming innumerable dangerous shelves and banks. By the climate, and by its form, it is subjected to tempestuous and sudden changes of wind, so that the boldest and most experienced mariners, from arriving in soundings in approaching the mouth of the Channel, even with a leading wind, and keeping in the fair way, till they get into port, seldom are at ease. This is meant in the case of a single ship. But let any one, ever so conversant in this navigation, with every advantage of ports in his favour, say what his seelings have been, when on board of a British sleet cruising in the Channel, and then we may judge with respect to a numerous sleet of large ships, strangers, with dark nights and blowing

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blowing weather, what the apprehensions and seelings may be as well of the officers on board, as of the statesman on shore, who wantonly commits and puts to hazard so great a part of the marine of his nation in one enterprise, and in such perils.

By an eafterly wind (as often is the case with our own ships) an hostile fleet may be long detained from entering the mouth of the Channel; and by a wind at west, when once embayed, suppose within the head-lands of Portland on the one shore, and La-Hogue on the other, it will not be eafy for them to return. * If the wind from the west continues, and begins to blow with violence, which it often and fuddenly does, this fleet must put before it (for there is not one port on the opposite shore sufficient to receive and afford shelter for large ships for above 1500 miles from Brest, round to the entrance of the Baltic); and, pasfing the straits between Dover and Calais, over fands and through shelves, they must get, without remedy, into great disorder. But all the while this fleet, by the supposition, has hitherto met with no interruption or annoyance of any kind from Britain, the greater part of her force being occupied at a distance. What then ought to be the consequences, if followed by numberless thips, of every fize and denomination, which, in such a case, and for this occasion only, may be fitted out, and collected from the different ports, which, inceffantly hanging on the rear,

^{*} No fleet of French men of war has been within these head-lands since the battle of Cape La Hogue, May 19. 1692.

are enabled to take advantage of every accident, many of them at all times, from the fituation of the ports from whence they can be fitted out, being necessarily to windward, which way foever the wind shall blow? After considering these circumstances, is it to be imagined, that a fleet of ships from the southward, hostile to Britain, so large and so numerous, will ever, without great loss, be able to effect a return through the Channel? Will it not be expected, that they must be forced into the North Seas, where, if late in the season, in the high latitude of 60 degrees, they will have to encounter all the horrors of winter, long nights, and continual storms, not less formidable than any thing experienced by Lord Anson when doubling Cape Horn, as lately selt by the armament commanded by Mons. Thuror?

Of such a nature was the route planned for the Spanish Armada by Philip the Second, and by following which route was this mighty enterprise defeated.

OF THE BATTLES WITH THE DUTCH.

The engagements with the Dutch, still later, by almost one hundred years, than the Spanish Armada, glorious as they were to both nations, as exhibitions of courage and perseverance, give little information with regard to a progress or improvement in Naval Tactics. The only idea which I have been able to form of them, is that of numerous squadrons assembled, to the amount of 250 or 300 ships, jambed together in narrow seas, (the

(the Channel), where they have been confined by the thores on each fide, and deprived, in a great measure, of every chance of manœuvring.—Here, in one place, ships in clusters entangled with one another, and, independent of all order, getting foul, each of their antagonists; there, again, in another part of the scene, one ship, single and alone, unsupported, and befet with many enemies, left to make the most gallant resistance she could. Of course, on both sides, much bloodshed and loss of thippings must have been sustained. But, in these engagements, they differed in this from the case of the Spanish Armada, that each of the parties had their ports under their lee, to which they could retire, and from whence they could fally forth at pleasure, so soon as resisted.

OF SIGNALS, THE INVENTION OF WHICH, ABOUT THIS TIME, IS ASCRIBED TO THE DUKE OF YORK.

The invention of fignals is generally ascribed to the Duke of York about this time. This, however, is absolutely incredible. He might, indeed, have improved them, but the invention must have been of older date. How could any military operation at tea or on land be conducted without fignals? It cannot be believed that, in reducing the subject of fignals to any kind of system, he had made much progress, if it is necessary that Admirals, to this day, when entering upon the command of an expedition, have to compose a particular system for themselves; an attempt which must be attended with much inconvenience; for it is not conceivable of any new code of signals, however simplified it

may be, that it can be made familiar to every officer in a numerous fleet in the course of a sew days, or even weeks; and therefore is the more absurd if an enemy is to be encountered with immediately, which has sometimes been the case after a sew hours departure from port.

OF NAVAL INSTRUCTIONS.

The Naval Instructions about this time formed, for having thips extended in line of battle, and which were founded upon the occasion of the above mentioned battles with the Dutch, in order to serve the immediate purpose of fighting in narrow seas, if ill qualified (as faid in another place *) for bringing on an action with a fleet of ships unwilling to come to a shock, and having fea-room to range in at pleasure, they have been no less unfortunate in promoting the means, of information; fince, of all those numerous engagements, so little of system, so little of the disposition or movement of fleets has been comprehended, that the historian Mr DAVID HUME, accurate and intelligent as he was in every other subject of inquiry, giving up the point, as it would feem, has the following passage: 'There is a natu-* ral confusion attending sea-sights, even beyond other military ' transactions, derived from the precarious operations of winds and tides, as well as from the fmoke and darkness in which every thing is there involved; no wonder, therefore, that re-- lations of these battles are apt to contain uncertainties and constradictions, especially when compared by writers of the hostile nations.

^{*} See Introduction prefixed to Part I. p. 18.

- * nations, who take a pleafure in exalting their own advantages,
- ' and suppressing those of the enemy *.'

The part of Mr Hume's history from which this passage is quoted, was not finished till almost an hundred years after the battles in question, and not till after he might have consulted the description of these others, Bantry Bay, Beachy-Head, and La Hogue. He had likewise the affistance which might be procured from the battles fought in his own time; that of Malaga in 1719, that of Admiral MATTHEWS in 1744, and that of Admiral BYNG in 1756; together with every degree of information which could be acquired from the trials which took place in confequence of the two last, both long and circumstantial j. Mr Hume, at the fame time, nothing at a lofs when a battle at land is to be described, but, like other historians, with infinite pains, is fure to preface the same with a detail of every circumflance of fituation, advantage or difadvantage of ground, by which the reader is made to forefee whichever of the parties shall obtain the victory.

Other writers, equally successful in their detail of military transactions at land, but not a whit more fortunate in their conceptions of operations at sea, talk of agility of shipping, of their E e heroes

^{*} History of England, Vol. VII. p. 507. 8vo. edit. 1778.

⁺ A later writer still, Mr McPherson, when speaking of the battle of La Hogue, has these words: 'The consuson and want of plan which prevails in all naval engagements, ought to have saved the victors from the consure which writers have thrown on their conduct.'

heroes ruthing furious through the squadrons of the enemy, of ruthing to battle, of presenting themselves to every danger, of plunging into the middle of the foe, &c.; phrases applicable only to military operations at land, and consistent, and perhaps in use, in speaking even of transactions at sea, when galleys, as in ancient times, were propelled in every direction with the oar, and actuated upon, and influenced by, the passions of men within the vessel; but altogether inconsistent with the motions of unwieldy shipping, manageable only with the sails, consined, as they must always be, to particular movements, as mere machines, dependent on the immediate effect of the wind alone, as they are in these days.

Is it to the historian, then, that we are to impute this confution of ideas, the continuation of the use of such phrases, and this so particular desect of information? No; for historians must have adhered to the spirit of the descriptions which have been put into their hands. Is it to the vanity of commanders, desirous of extolling and magnifying their own exploits? No; it can only be attributed to the particular state of things at the time, that the intellectuals of men, deranged by so complete a transition of so many circumstances combined, as before enumerated; have not as yet recovered any proper idea of system, or principles of conduct, adapted to such novelties.

PERIOD III.

Supposing Period Third to commence about anno 1740, and to-conclude with the end of the year 1781, it will be diffinguished by those sea engagements of which we have been able to procure fuch an authentic and substantial information of circumstances, as could authorife a particular plan and description. But, before proceeding farther with this investigation, it will be necessary to premife a few General Principles.

GENERAL PRINCIPLES.

CASE I. A commander who shall have so disposed of his force, that no one division or part can be attacked, without a poslibility of being immediately supported by the whole, or at least by some other part, has taken not only the first precaution to prevent a defeat, but also, has taken the first step to obtain a victory.

CASE II. The commander who, in leading on his force, shall make his attack with great superiority, upon any one division or part of his enemy, and while this division shall be posled so as it cannot be supported, has, in like manner, not only taken the E e 2

first step to obtain a victory, but also has laid hold of the first precaution to secure a retreat, should it ever be necessary.

CASE III. Hence, on the other hand, and in opposition to Case I. should ever a commander have so disposed of his force, that any one division or part may be attacked, by a great superiority, without a possibility of having it supported by the whole, or by any one part of his remaining force, that commander must be defeated.

Case IV. Hence also, in reverse of Case II., a commander who, by the mode of his attack, shall so dispose of his force, that any one division or part, dissicult to be supported, shall be exposed to his enemy when greatly superior, suppose it a cannonade greater, by many degrees, than he can bring up to oppose it, such commander undoubtedly will be worsted.

That rules, such as these, are applicable to, and should have influence upon, military operations at sea as well as at land, every one will allow. By them, the following strictures upon modern naval practice, and the mode of attack which have been proposed, must be judged; and to some error or neglect of them it is, that the defect of information, which has distinguished the former period, must be imputed.

OF THE MOVEMENTS OF SHIPS AND FLEETS IN RELATION TO EACH OTHER.

Ships, or fleets, managed as they are in these days with fails only, though not, as animals, self-moving bodies, that is, under the perfect command of the men within, to be carried with oars against wind and tide, at pleasure, in every direction, yet, considered as machines, governed by, and confined to, the laws of mechanics; their paths in the sea, and their military evolutions, may be traced and delineated upon proper principles. Now, the moving power or agent being the wind, and this affecting any number of them mutually, at one and the same time, and in the same direction, as in the case of sleets when in opposition, the movement of the several ships or sleets, in relation to each other, will be reciprocal, consonant, and regular.

Not only ships, but whole fleets, in hostile opposition, when in the same stream of wind, must equally, and, at the same time, both of them in their motions relatively, be so affected, that, supposing the sace of the sea to be conceived as a plane, on paper, and the wind as a point A (Plate XII. sig. 13.), from which both sleets B and F are operated upon; we also may carry the supposition so far as to conceive that both might be affected in some way, as suspended from the same point, as at the pendulum D, D, D.

Hence, when confidering the connexion between two fleets, supposing the one to be to windward of the other, whatever way

the wind shall veer about, both being dependent on the same wind, the motion and manœuvring of each, in relation to each other, can still be of the same nature.

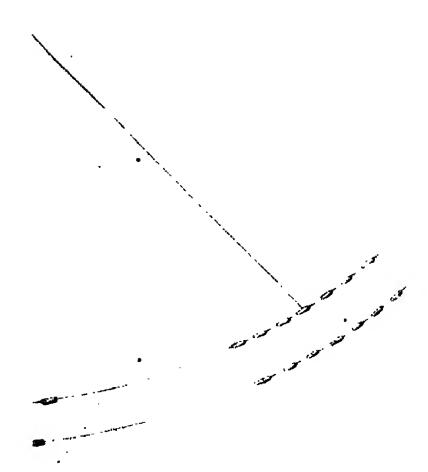
OF THE TACE OF THE OCEAN, CONSIDERING IT AS A FIELD FOR THE MILITARY OPERATIONS OF HOSTILE FLEETS.

That the face of the ocean, confidering it as a field for military operations, but more particularly as a field for immediate engagement, the hoftile fleets opposed, having neither rivers, ravines, banks, woods, or mountains, to stop progress, or interrupt the fight, so that ambuscades or stratagems can be formed, and while each are extended in line of battle, where every individual thip, and the line into which she belongs, is operated upon by the same wind, at the same time, and, by the laws of mechanism, commed to movements in every respect consonant in relation to each other; Should not every occurrence, every transaction, for these reasons, and in such circumstances, be the more easily conceived, understood, and explained, than even in military operations on land?

A fleet on the face of the ocean, on the defensive, extended in line of battle, and prepared to receive an enemy coming down to make an attack, as has been the late practice, from the wind-vard, may be compared to an army posted to great advantage, and provided with numerous batteries of cannon, impenetrable if attacked in front; and should any such attack be made, that each

h.7 fund on the bearing of the Wind .

PLATE XII Part W. p. 248.



ship, comparing it with a single battalion, or party of cavalry, may retire, suppose to leeward, under cover of seconds on either side (ahead and astern), and choosing a new position, from whence the enemy could be annoyed again and again, this may be repeated with equal advantage as at first, while the sleet, and each ship that makes such an attack must be ruined, crippled, and rendered incapable of pursuing, or following.

OF THE APPLICATION OF THE FOREGOING PRINCIPLES AND IDEAS, WITH SOME OF THE SEA ENGAGEMENTS OF THIS PERIOD OF NAVAL HISTORY.

Admiral MATTHEWS's engagement in 1744 is the first of this Third Period of Naval History; it is also the first in the list of those of which we have been able to procure authentic and substantial information of circumstances; it is also the first to be considered, with respect to the application of the foregoing principles, &c.

APPLICATION OF THESE PRINCIPLES TO THE CONDUCT OF ADMIRAL MATTHEWS, AS MAKING THE ATTACK.

According to Case II., for example, the commander who, in leading on his force, shall make his attack with great superiority, upon any one division or part of his enemy, and this division so posted that it cannot be supported, has taken the first step to obtain a victory.

By the position of Admiral MATTHEWS's fleet before the engagement, his force was so disposed, that, had that force been led on, or had the force which was led on been supported as it should have been, the attack might have been made with such a superiority, that the Spanish Admiral, with the ships in his rear astern of him, separated as they were from the van and centre of the combined sleet, there is not a doubt that the whole might have been cut off.

But, confidering this attack in another view, and according to principles, Case IV., that Mr MATTHEWS, by carrying down his thip, the Namur, and her seconds, the Norfolk and Marlborough, in the manner he did, had them exposed to a cannonade, unfortunately greater, by many degrees, than he could at the time bring to oppose against it, and by which these ships were so disabled, that, had the Spaniards thought sit to retire, (a manœuvre which the French, their allies, have many times since, on the like occasion, put in practice), Mr MATTHEWS neither could have stopped them, nor could be have followed them *.

* OF THE SPANISH ADMIRAL.

Confidering that the flect of the Spanish Admiral was extended to a great length, that he was separated at a great distance from

^{*} Vide Admiral Matthews's Engagement, Part I. p. 110., and Plate XVI. fig. 2.

from both his van and centre, and that his own division was lest unsupported; according to principles, Case III., he should have been defeated.

Again, in another view, had the principles, as laid down, been thought applicable by the Spanish commander, or had he been instructed, or aware of what has since been the practice of French commanders; neither would be have neglected to avail himself of disabling Mr MATTHEWS, while coming down to attack him, that is, while he had the superiority of fire in his favour; nor would he, by patiently lying still, have given time sufficient for Mr MATTHEWS to retaliate, by disabling him in his turn, but, unhurt, would have withdrawn his ships from battle for the present; and, by bearing away, would have attained a new situation, where he might be out of the reach of cannon-shot, and where he might be in preparation to form a new line of battle to leeward, No. 17.

OF ADMIRAL BYNG'S ENGAGEMENT, CONSIDERING HOW II MAY BE AFFECTED BY THE APPLICATION OF THE FORE-GOING PRINCIPLES.

In Admiral Byng's engagement, twelve years after that of Mr MATTHEWs, the French now themselves alone the opponents, their mode of desence adopted *, though desective with respect to the disposition of their force, according to principles, Case II., and F f ... which

^{*} Vide No. 48. Part I. BYNG's Engagement.

which has been proved in another place; * yet, considering the mode in which the attack was made upon them, seems to be the best which could be imagined in their situation and circumstances. In great strength, arranged in line of battle themselves, they not only disabled their enemy while coming on to attack them, but, unburt, they retreated, and accomplished, in the most complete manner, the full purpose of their destination, by making prize of the castle and island of Minorca.

That the French were in noways beholden to chance for such defence, but that it was studied and intended, must be evident from this, that, in every one of the many engagements which they have had with our sleets since that time, when to leaward, as on this occasion, it has been the mode they have put in practice, and it has been justified by an equal degree of success, in every instance.

If, then, this state of the subject shall be admitted to be just, Admiral Byng's engagement off Minorca, May 20. 1756, will be the sirst in modern times from which any degree of system can be formed.

Again, with respect to the mode of attack, the part which Mr Byng had in the action, how applicable soever it is with principles Case IV., his van, by this mode of attack, was so disposed, that it could not be supported. It was exposed, while coming down, to a cannonade greater by many degrees than could be brought

^{*} The mode of attack proposed, p. 123. Part I.

at the time against it; and being thereby disabled, and rendered incapable of following or pursuing his enemy, and the purpose of his destination lest unaccomplished, Mr Byno must be allowed to have been worsted. This attack appears to have been founded upon an idea of taking, destroying, or disabling, the whole of an enemy's sleet, and, upon this idea, to have assumed a line of approach improper, as having given the enemy the greatest possible advantage.

In the mode of attack according to this idea, of taking, dedroying, or disabling the whole of an enemy's fleet, extended in line of battle, two lines of approach have been distinguished; the first, the line of intersection, the line of nearest approach, or lasking line, as put in practice, and so named by Mr Byno; the other, that line put in practice by Sir George Pocock in his engagement, April 29. 1758, two years after, in the East Indies, and which, for distinction sake, has been termed the line of pursuit, or curve of pursuit.

Of the first of these lines, (the lasking line), sive examples have been collected; and, upon these examples, as classed in Section I. p. 43. Part I. the observations and demonstrations, pointing out the desects in the accustomed mode of attack from the windward, are sounded.

Of the second of these lines, the line of pursuit, it has also been defined in the description given of Sir George Pocock's engagement in the East Indics. It is not, however, wished to be understood that some one, or all of these five examples given, do not, in some degree, partake of the properties of both of these

lines, or that Sir George Pocock's engagement, because of this distinction, should not be included in the same class with these five examples, but because, on no other occasion, has any thing been said that could give rise to have this line of pursuit defined so accurately as in this engagement of Sir George Pocock.

OTHER OBSERVATIONS, BUT APPLICABLE TO PERIOD THIRD ONLY.

- 1. That, in the many engagements with which this third period has been diffinguished, the enemy, whether they were to windward or to leeward, have never once attempted to make or beam the attack.
- 2. That not only through the whole, has this period been diftinguished by a fashion of exalting the character of the ships of the enemy, in point of falling, compared with our own; but, for the greater part, it has been distinguished by a fashion, as pernicious as unjust, viz. that of depreciating the character of British fearen.

A gentleman *, but not of the profession, after reading the foregoing naval inquiry as it was first printed, communicated to me the following observation: 'The only thing which tempts one to entertain a doubt with respect to your system is, that the

- beneficial effects are so manifest, that one wonders they should
- * not have occurred to professional men. >

To

Dr Adam Smith, author of the Wealth of Nations.

To which observation, after what has been said, it is sufficient to reply, that some defect has existed somewhere; for if the many examples given during this last period shall be considered, the uniformity of effect, shewn by them to have taken place, authorises us to conclude, that chance of war had not been conterned; for otherwise some one unlucky ship might have been taken or sunk, or might have been blown up in the air, accidents frequent, nay infallibly attendant on such other occasions, during the course of the former period of naval history.

END OF PART III.

NAVAL

NAVAL TACTICS.

ART IV.

INTRODUCTION.

markable for a feries of interesting events, and of new and fingular exertions of naval ability, we will begin the Fourth part of this work. The fortunate turn which then was given to naval affairs, and the splendid achievements then performed, render that important year the proper commencement of a Fourth period in the history of Naval Tactics. But, although victories, equally splendid with those of the year 1782, have been recently obtained *, and merit particular examination in a treatise on Naval Tactics, yet this part of the present work does not profess to embrace any account of these late glorious transactions, and will extend no farther than what was originally proposed.

That

^{*} Earl, Howe's, 1st of June 1796.—Earl of ST Vincent's, 14th of February 1797

That the whole of this Fourth part was written while the author was under the immediate impression of the enthusiasm excited by the merit of the actions at the time, he cannot deny: nor will he dissemble, that the event, with the consideration of which this part is to commence, viz. the plan and enterprize to relieve the island of St Christophers, is, of all naval exhibitions, the first, which had given him any real pleasure in making the description. With respect to the other observations, they express what were the feelings of most people at the time; and now, after a lapse of more than twenty years, he has not yet seen reason sufficient to induce him to make any alterations.

SIR SAMUEL HOOD'S ENGAGEMENT.

DESCRIPTION OF THE SEVERAL ACTIONS BETWEEN THE BRITISH FLEET, COMMANDED BY SIR SAMUEL HOOD, AND THE FRENCH FLEET, COMMANDED BY COUNT DE GRASSE, OFF ST CHRISTOPHERS, THE 24TH, 25TH, AND 26TH OF FEBRUARY 1782.

A few months after the unfortunate, catastrophe of Lord Cornwallis's army at York-Town in the Chesapeak river, Sir Samuel Hood being at Barbadoes, and hearing that an attack had been made upon the island of St Christophers, by a powerful armament under the command of Count de Grasse, set sail for its relief with twenty-two ships of the line, sive frigates, and two schooners. He arrived off the south-east end of the island of Nevis, at day-break of the 24th February 1782; when, directing the squadron to be formed in line of battle, he determined to attack the fleet of the enemy, consisting of thirty-three ships, and then lying at anchor in Basla Terra Road, island of St Christophers.

Plate XIII. fig. 1. A, The British fleet supposed on their course round the island of Nevis, on the morning of the 24th. F, The fleet of the enemy at anchor in Bassa Terra Road, having their van far to windward of the rear.

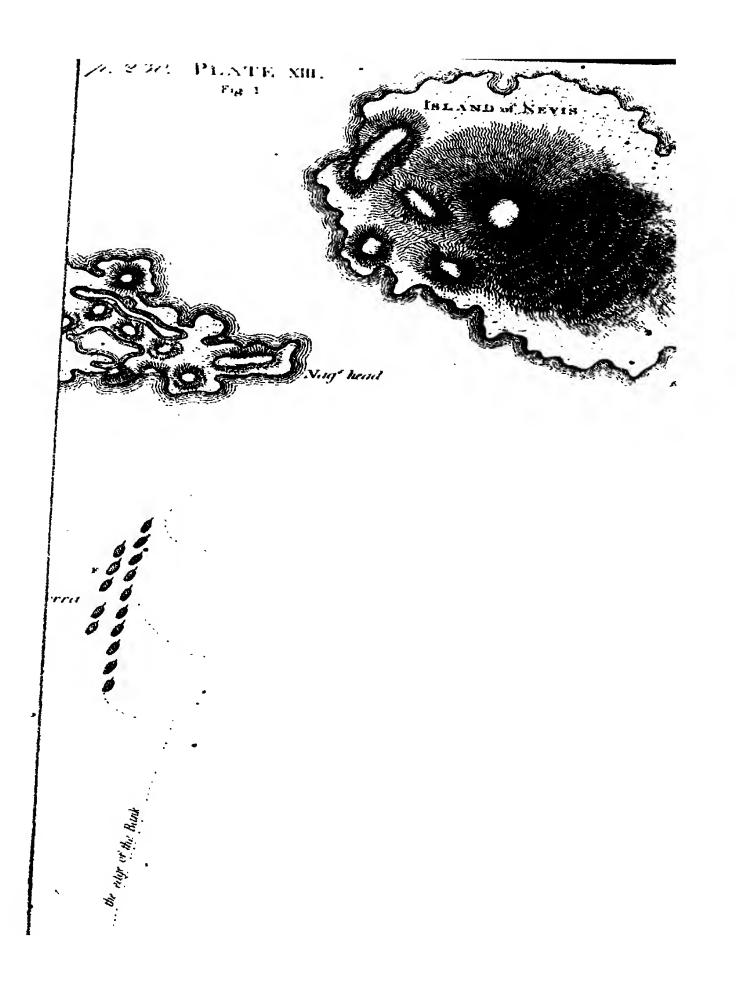
SIR SAMUEL'S instructions to each ship, given in St. John's G g Road.

Road, Antigua, were, 'To fland on till abreaft of the van of the enemy, as per course BB; and after having delivered each ship her whole sire upon the two headmost ships of the enemy, to haul off in succession, as per course CCC; and then, by tacking, to return in the same succession, and again, and again, to repeat each ship her whole sire.' By which ingenious method it was intended, first, to cut off or destroy these two headmost ships, which being essected, to repeat, in the same manner, the attack upon the next two ships aftern.

The misfortune of the ship Alfred running aboard of the Nymph in the morning, soon after the signal was thrown out, or ssioning much delay, the enemy had intelligence of Sir Samuli's approach; and, dreading the consequences of an attack, in the situation they were then in, quitted their anchorage and put to sea, as per course G G; and in the asternoon, and during the whole night of the 24th, kept three or sour miles to seeward of the British sleet, which was still inder the west end of the island of Nevis.

EXTRACT OF SIR SAMUEL HOOD'S LETTIR.

At day-light of the 25th, we plainly discovered 33 sail of the enemy's ships, on of which of two decks struct in a line is head. I made every appearance of an att k, which threw the Count Di Grassi a little from the 1 ore: And as I thought I had a fair project of gaining the anchorage he left,



- 291
- ' and well knowing it was the only chance I had of faving the
- ' ifland, if it was to be faved, I pushed for it, and succeeded, by
- ' having my rear and part of my centre engaged.
 - 'The enemy gave a preference to COMMODORE AFFLECK;
- . ' but he kept up to noble a fire, and was to supported by his fe-
 - ' conds, CAPTAIN CORNWALLIS and LORD ROBERT MAN-
 - " NERS, that the loss and damages sustained in those ships were
 - but trifling, and they very much preferved the other ships in
 - ' the rear,' &c. (And afterwards be fuys), ' Would the event of
 - 'a battle have determined the fate of the illand, I would without
 - hesitation have attacked the enemy, from a knowledge how.
 - much was to be expected from an Ruglith fquatiron, command-
 - ed by men amongst whom is no other contention than who
 - ' should be most forward in rendering fervices to his King and
 - Country: herein I placed the utmost confidence, and should
 - ' not, I trust, have been disappointed.
 - ' I anchored his Majesty's squadron in a close line ahead.
 - ' Next morning about eight o'clock, I was attacked from van to
 - rear with the whole force of the enemy (29 fail), for nearly
 - ' two hours, without having the least visible impression made
 - 4 upon my line. The French ships then were and stood off
 - e again, and in the afternoon began a fecond attack upon my
 - · centre and rear, with no better fuccess than before; fince which
 - * the COUNT DE GRASSE has kept a fafe distance.—Many of
 - " the French ships have suffered considerably."

DESCRIPTION.

Plate XIV. fig. 2. A, SIR SAMUEL HOOD with the British fleet lying off the north-west end of the Island of Nevis in the morning of the 25th February at day-light, and intending to bring his fleet to an anchor in the ground Count De Grasse had lest; but, at the same time, endeavouring to amuse the Count with the appearance of a design of making an attack upon him.

B, The van of the British squadron now come to an anchor under Green-point in a close line ahead, and with springs to bring the broadside of eacl ship to bear upon an enemy, who might attempt to come down and attack them.

C, The rear of the British fleet under COMMODORE AFFLECK, with part of the centre sustaining, while coming to an anchor, an attack from the enemy.

F, The French cannonading; but at such a distance, as nowise obstructed the British squadron from coming to an anchor.

The French fleet then were and flood off to fea again, as per course G.G.

Plate XIV. fig. 3. A, The Alfred, Canada, and Refolution, in the morning of the 26th at 6 o'clock, having been ordered to shift their ground, as the evening before they had anchored too far to leeward, and too near to the edge of the bank *,—and being under way, these ships, from this position, had it more in their power to overawe the enemy, and prevent them from doubling back upon the British squadron, when they came to make the attack some hours after.

* Without the bank, from the immediate depth of water, there is no an-

- B, The British squadron in the morning, consisting of other 19 ships, at an anchor with springs, so that each ship in the line might, at one and the same time, be brought to bear upon an enemy coming down to make an attack.
- F, The French fleet, about 8 o'clock in the morning, advancing to the attack with 29 ships; and, having begun the attack upon the van, as at H, they ranged along the whole British line, as per dotted line of course I I; then hauling up aftern, as at K K, they evidently meant to rake the ships in our rear, or might have intended to have doubled back towards A; but, overawed by the three foresaid ships, the Alfred, Canada, and Resolution, under way at A, they were in succession, and hauled off to sea, as per course L L L.

M M, The enemy now on the starboard tack, and on the return to the second attack, which they made upon the centre and rear, in the afternoon of the same day, after having taken such an offing as enabled them to setch our sleet.

N, Guana Hill, from which the British squadron was threatened to be bombarded.

O, Mooring's Hills, where GENERAL PRESCOT had the skirmish with the Irish brigade; and where Monsieur DE BOUILLE declined attacking him.

The enemy afterwards kept in the offing, not choosing to make another attack upon SIR SAMUEL, who, not having it in his power to give farther affishance to the island, after 10 or 12 days, cut his cables, laying hold of the opportunity, while the enemy had come to an anchor off the island of Nevis; and taking his course by the north end of the island of St Christophers, and by Sambriro, stood to the northward.

dist processe bet the garden forces or you made a new to be to

OBSERVATIONS.

The fingularity, or rather novelry, of this affair, fo very important in all its confequences, cannot be passed over without endeavouring to give it a full confideration; and that this may be done with the greater impartiality, it will be necessary to state the facts simply as they are.

Hearing that a fleet of 33 ships of the enemy were lying at anchor, Bassa Terra Road, in support of the powerful attack which they were then making upon the island of St Christophers, Sir Samuel Hood, with a much inferior force, consisting of 22 ships only, resolves to attack them in this situation.

The French, discovering his intentions before his approach, and feeling, it seems, the situation which they were in disadvantageous, quitted it, and put to sea.

Sir Samuel, thus disappointed in his intended attack, but consider that the obtaining a communication with, and supporting the same, was the only chance lest him of saving the island, by a daring stroke in seamonship, seldom before this time attempted, in the face of this enemy, and even while in the act of sustaining a furious attack from the enemy, brings his sleet to an anchor in the self-same position, or station, which they but a little before, and with a sleet so very much superior, had quitted, as thinking it untenable.

The enemy first having suffered themselves to be dislodged, and asterwards having suffered this inserior steet to come to an anchor, determined, if possible, to wipe off the double assent, by attempting an attack in their turn.

But

But this attack was either so ill conducted, or so feebly supported, that, though it was twice attempted, they, as unequal to the task, patiently permitted the British Admiral to keep his post for 12 days, without ever afterwards attempting to disturb him.

On the part of the enemy there were here no accidents, which, as in all other former cases, might be laid hold of, and held up as an excuse for want of success; nothing from winds, tides, or blowing up of particular ships, not the loss of a single mast or yard to surnish the shadow of an excuse, either for quitting their anchorage, or, after they had, for not overpowering with their numbers so inserior a sleet, occupying, and even fixed to, an anchorage, and affording an equal opportunity of being attacked for 12 successive days.

On the part of the British will be found a plan, gallantly, but prudently formed, to attack a force superior, as three to two, which if it was not put into execution, it was because the enemy had prudently declined. Again, in consequence of a still more daring plan having been formed immediately upon the above disappointment, we find them, in defiance of all former rules (in the face of this superior sleet, who had taken every means of obstruction, and even while they were maintaining a combat with this sleet), bringing their ships to an anchor without a possibility of being prevented. Afterwards, we find them disposed at anchor in so masterly a manner, that little loss was suftained, though two several attacks were made in the same day, by an enemy who had it in their choice to take every advantage.

Laftly, that there might be nothing wanting to establish a complete, proof of British superiority, we find them keeping, without

without difficulty, that post which had been thought untenable, sending relief on shore, and maintaining a communication with the island for 12 days, without interruption.

During the more ancient and even more heroic days of naval prowers, one fleet, at one time, might have had the good fortune to shew their valour in the attack, as those at Cadiz, at Vigo, &c.; and another fleet, at another time, might have been so happy as to have an opportunity of exhibiting their steadiness in sufficient on no occasion whatever has one and the same fleet been so fortunate, as in this of Sir Samuel Hood forcing their opponents to so complete and unequivocal an acknowledgment of their superiority in both cases, whether we shall consider their courage and perseverance, or their skill in seamanship.

As there can be no doubt that this contrast drawn between the two fleets is a just one, what ought then to be the feelings of our countrymen upon this occasion, compared to that state of universal despondence into which the whole nation was plunged but a few months before?

Perhaps it may be faid, by those who wish to lower or depreciate the importance of this event, that the enemy, being conscious of their great superiority in the West Indies, had, without thinking it necessary to take the proper precautions, come to an anchor in disorder; but, not thinking it proper for them to sustain, or permit an attack in this state from a sleet even much inferior, had prudently quitted their anchorage; or, being advised of the approach of the British sleet, inferior in strength, they had put to sea, with the intention to cut off all hopes of their making a retreat; or, being satisfied of the importance of possessing a retreat; or, being satisfied of the importance of possessing a retreat; or, being satisfied of the importance of possessing a retreat; or, being satisfied of the importance of possessing and the same and

feffing a superior sleet to the end of the war, and knowing, at the same time, that nothing could be done effectually to retard their operations in taking the island, they were determined to risk nothing.

All this, however, if it proves any thing, proves their inferiority in feamanship, or that they were determined to fight thy, as they have done on every former occasion, and should as essectually exalt the spirits and courage of British seamen, as it should depress those of the enemy.

It has been asked, it is true, Why should not this seet have put to sea? Twenty-two well coppered ships, of which it consisted, might be said to have been a match sufficient for the sleet of Count De Grasse, although superior in number. No opinion will be given on this point; but, from the whole of the conduct, and, by keeping this station so long in the sace of such a superior force, it should shew what might have been the fortunate issue, had the British sleet at once been carried into the Chefapeak in support of Lord Cornwallis, in place of the vain and fruitless attempt of bringing the enemy to action, but a few months before, on the 5th of September 1781, which was afterwards attended with such dreadful consequences.*

^{*} About two or three years after these engagements off St Chaistophers, being in conversation with a gentleman, an officer who commanded a ship there at the time, and who, rather offended with the observations expressed as above (for he, it seems, had been of a different opinion from the Admiral, about the plan of the service projected), upon being asked, what truly had passed in his mind on stein, his gallant friend Commodore Appleck bringing to an anchor the rear of the sleet, while yet warmly engaged with the enemy? (for the ship commanded by this officer had been among the first in the van to be brought to an anchor).

"Why, ay, ' fays he, with an enthusiastic agitation, 'why, ay, that was a magnificent sight, a sight the most interesting that ever was seen!' And how was it the next day, while the enemy made their attack, and twice run down along your line from van to rear, without being able to make impression upon a single ship? 'Why, ay,' returned he again, 'that was still more glorious indeed; and there was not a boy on board the whole sleet, who did not seel he was a seaman.' And a Brit'sh seaman, thought I, a character the like of which never did in the world exist before. This is all I have to require, was my reply; for it was the spirit and gallantry displayed in the execution of the enterprise itself, which was the object of importance with me.

SIR GEORGE BRYDGES RODNEY'S ENGAGEMENT,
ON THE 12TH APRIL 1782.

INTRODUCTION.

It is with great pleasure that we still are able to bring forward an, accurate description, and in all its great extent, of Sir GEORGE BRYDGES RODNEY's most celebrated battle of the 12th of April; and that the accuracy of this description may be properly supported, we have only to mention, that, besides Lord RODNEY's letters to the Admiralty, we have the testimony of the late Lord CRANSTOUN, one of the Captains, of the Admiral's ship the Formidable. This very able and intelligent officer, who first took possession of the Ville de Paris, Admiral Count Dz GRASSE's ship, and was fent home with the dispatches, did me the honour to feek me out, and was fo kind as to furnish a number of sketches, and even to assist with a great part of the description. Lord RODNEY too himself, in a private letter, of a date so late as 14th June 1789, has given an account, by way of narrative, of his transactions, campaign 1782, in which is included this battle of the 12th April *.

H-h 2

FROM

* This letter was transmitted to me by a common friend, the late General Robert Clerk, together with a copy of Naval Tactics, as printed January 1. 1782: which copy contains a number of valuable marginal notes in his Lordship's own handwriting; but, coming too late, they could not be introduced, though particularly relating to part first of this work, when reprinted and published 1790.

FROM THE LONDON GAZETTE.

Admiralty-Office, 18th May 1782.

Lord Cranstoun, one of the Captains of his Majesty's ship the Formidable, and Captain Byron of the Andromache, in which ship his Lordship came a passenger, arrived early this morning with dispatches from Admiral Sir George Bryoges Rodney, Bart., Knight of the Bath, and Commander in Chief of his Majesty's ships at the Leeward Islands, to Mr Stephens, of which the following are copies.

Formidable, at Sea, April 14. 1782.

has pleased God, out of his divine providence, to grant to his Majesty's arms a most complete victory over the fleet of his enemy, commanded by the Count De Grasse, who is himfelf captured with the Ville de Paris, and sour other ships of his fleet, besides one sunk in the action. This important victory was obtained the 12th instant, after a battle which lasted, with unremitting sury, from seven in the morning till half past six in the evening, when the setting sun put an end to the contest. Both sleets have greatly suffered; but it is with the highest satisfaction I can assure their Lordships, that though the masts, sails, rigging, and hulls of the British sleet are damaged, yet the loss of men has been but sinally considering the length of the battle, and the close action they so long sustained, and in which

both fleets looked upon the honour of their King and country to be most essentially concerned. The great supply of naval stores lately arrived in the West Indies, will, I statter myself, soon repair all the damages his Majesty's sleet has sustained.

The gallant behaviour of the officers and men of the fleet 1 have the honour to command, has been fuch as must for ever endear them to all lovers of their King and country. The noble behaviour of my fecond in command, Sir Samuer, Hood, who, in both actions, most conspicuously exerted himself, demands my warmest encomiums. My third in command, Rear-Admiral DRAKE, who, with his divition, led the battle on the 12th instant, deserves the highest praise; nor can less be given to Commodore Affleck for his gallant behaviour in leading the centre division. My own Captain, Sir CHARLES DOUGLAS, merits every thing I can possibly fay; his unremitted diligence and activity greatly eafed me in the unavoidable fatigue of the day. In fhort, I want words to express how fensible I am of the meritorious conduct of all the captains, officers, and men, who had a share in this glorious victory, obtained by their gallant exertions. The enemy's whole army, confisting of 5500 men, were on board their ships of war. The destruction among them must be prodigious, as, for the greatest part, of the action, every gun told; and their Lordships may judge what havock must have been made, when the Formidable fired near eighty broadfides.

Enclosed, I have the honour to send, for their inspection, the British and French lines of battle, with the account of the killed

led and wounded, and the damages fustained by his Majesty's fleet. Lord Cranstoun, who acted as one of the Captains of the Formidable during both actions, and to whose gallant behaviour I am much indebted, will have the honour of delivering these dispatches. To him I must refer their Lordships for every minute' particular they may with to know, he being perfectly master of the whole transaction. That the British slag may for ever sloutish in every quarter of the globe, is the most ardent with of Itim who has the honour of being, with great regard,

S I.R. &c.

G. B. RODNEY.

nucd

EXTRACT OF A LETTER FROM SIR G. B. RODNEY TO MR STEPHENS.

Formidable, at Sea, April 14. 1782.

On the 5th of April, I received intelligence that the enemy were embarking their troops on board the ships of war, and concluded they intended to sail in a very few days. Captain By-Ron of the Andromache, an active, brisk, and diligent officer, watched their motions with such attention, that, on the 8th instant, at day-light, he made the signal of the enemy's coming out, and standing to the north-west. I instantly made the signal to weigh; and having looked into the bays of Fort Royal and St Pierre, where no enemy's ships remained, I made the signal for a general chase; and, before day-light, came up with the enemy under Dominique, where both sleets were becalmed, and conti-

nued so for some time. The enemy first got the wind, and stood towards Guadaloupe. My van division, under that gallant officer Rear-Admiral Sir Samuel Hood, received it next, and stood after them. At nine the enemy began to cannonade my van, which was returned with the greatest briskness. The bassling winds, under Dominique, did not permit part of the centre division to get into action with the enemy's rear till half past eleven, and then only the ship next to me in the line of battle.

*Their Lordships may easily imagine the mortification it must have been to the fixteen gallant officers commanding the thips of the rear, who could only be spectators of an action in which it was not in their power to join, being detained by the calms under Dominique. The enemy's cannonade ceafed upon my rear's approach, but not before they had done confiderable damage to the ships of the van, and disabled the Royal Oak and Montague, and his Majesty had lost a gallant officer, viz. Captain BAYNE of the Alfred, and a number of officers and feamen, as mentioned in the account transmitted to their Lordships; but such was the steady behaviour of Sir Samuel Hood, and the ships of the van, that the enemy received more damage than they occasioned: The night of the 9th instant the fleet lay to, to repair their damages. The 10th, they continued to turn to windward under an eafy fail, the enemy's fleet continuing to do the fame. and always had it in their power to come to action, which they cautiously avoided, and rendered it impossible for me to force them in the fituation they were in, between the Saints and the island of Dominique. On the 11th of April, the enemy having gained confiderably to windward, and the wind blowing a

fresh and steady gale, I made the fignal for a general chase to windward, which continued the whole day. Towards fun-fet, fome of the headmost ships of the fleet had approached near to one of the enemy's thips that had received damage in the late action, and had certainly taken her, if Count De Grasse had not here down with his whole fleet for her protection, which brought him so near, that I flattered myself he would give me an opportunity of engaging him the next day. With that view I threw out the figual for the form of failing, and flood with the whole fleet to the fouthward till two o'clock in the morning; then tacked, and had the happiness, at day-light, to find my most fanguine defire was near being accomplished, by my having it in my power to force the enemy to battle. Not one moment was loll in putting it into 'execution: The confequence has been fuch as I have had the honour to represent in my former letter of this day; and can fay no more, than that too much praise cannot be given to the gallant officers and men of the fleet I had the honour to command.

G. B. RODNEY.

THE DESCRIPTION OF THE BATTLES OF THE 9TH AND 12TH OF APRIL 1782, FOUGHT BETWEEN THE BRITISH SQUADRON, COMMANDED BY SIR GEORGE BRYDGES RODNEY, AND THE FRENCH SQUADRON BY COUNT DE GRASSE.

In Monday, the 8th of April 1782, fignal was made from the British cruiters off Fort Royal Bay, Martinico, that the French fleet, attended by a number of transports, were then got under way. Our ficet immediately weighed from Grosse Islet Bay, St Lucia, and stood after them to the northward, under the west end of Martinico, and soon got sight of part of their men of war. The pursuit was continued, during the night, with all the fail that could be made, directed by the enemy's night signals. The wind a freth gale at N. E. by E. At two in the morning, the Valiant, being to windward, discovered the enemy under the north end of the island of Dominica. At three o'clock the fleet brought to by signal; the enemy at that time nearly bearing north, &c.

Plate XV. fig. 1. A, The British sleet, at two in the morning of the 9th of April, discovering part of the French sleet under the north end of Dominica at F; at three o'clock brought to by signal; at half past five the signal was thrown out to prepare for battle. The line to be formed at two cables length alunder, and the fleet to fill and stand on.

- G, The French fleet afterwards, at five in the morning, on the starboard tack, working to windward in the Channel, between the islands of Dominica and Guadaloupe, where they had a steady breeze.
- H, One of the enemy's ships, at this time so far to leeward, that she must have been taken, had not the wind failed us, while she had it so fresh as served her soon to recover her station.

Plate XV. fig. 2. A, The van of the British having at last got the breeze, setched up with the centre of the enemy, still upon the starboard tack, when they were fired upon about nine o'clock, where, for the space of an hour, they sustained a distant cannonade from as many of the enemy's ships as could be brought to bear upon them. The centre and rear, in the mean time, lying still becalmed under the island of Dominica, at B.

F, The French not all in order of battle, as some of their ships were endeavouring to work to windward.

Plate XV. sig. 3. A, The centre of the British having afterwards got the breeze, joined the van about noon, when the action, after an interval of two hours, was renewed; but the Duke, the Formidable's second aftern, was the sternmost ship engaged upon this occasion; the 16 ships in the rear division, and aftern of her, not being able to get up.

B, The van of the British. .

The centre now having joined the van, the cannonade was continued an hour and three quarters, until the rear, which had, in the mean while, been becalmed at C, began to join and close the line also, as at D.

F, The enemy, (who, during all this time, kept, as usual, at such a distance as shewed that they meant to disable), as soon as they saw the junction of the whole British sleet, hauled off to windward, tacking from the van, as per line of course H H.

G, The enemy's fleet of transports stretching away to windward of the Saints.

The enemy did not at first appear to have suffered much; but soon after, however, one of them seemed to be crippled; and, asterwards, we found two had received so much hurt, that they were obliged to bear away to Basse Terre, Guadaloupe, to resit; so that they were not in the second action, which was afterwards fought on the 12th *.

The 10th of April was spent in resitting and keeping our wind, and shifting the van and rear divisions, as the van had suffered in the action of the ninth.

I i 2

Plate

^{*} From LORD RODNEY'S NARRATIVE, contained in his private letter above mentioned.

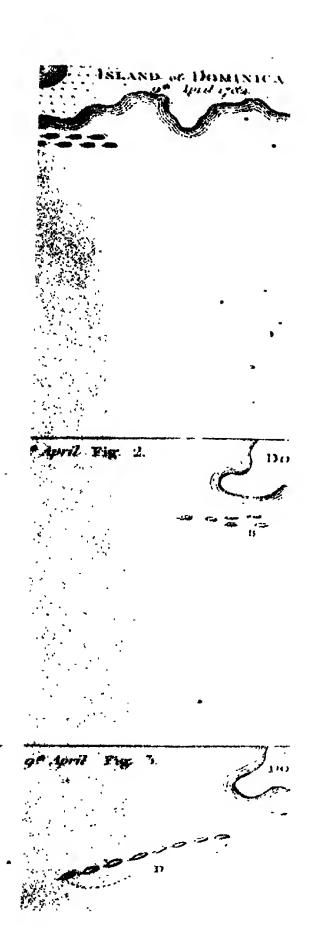
About two o'clock in the morning of the 9th of April, the British sleet came up with the enemy's under Dominique; both were becalmed. The enemy first got the wind, and slood towards Guadaloupe, the British van followed, as did the centre, when the breeze reached them. The enemy attacked the van, and a cannonade ensued; but it ceased when the Admiral and his two seconds joined his van. In vain; when the Admiral got abreast of the Ville de Paris, he laid his main-top sail aback for the French Admiral to bear down and engage: He kept his distance; and plainly indicated it was not his business to bring on a battle, as the enemy's whole sleet had got the wind, and could have brought them to engage half of the English. Admiral Rodney had his signal ready to wear and stand to his rear, seven sail of which were becalmed at a very considerable distance. However, the enemy would not risk the attack and the breeze soon reaching the rear, it soon joined the centre.

Plate XVI. fig. 4. A, The British fleet, in the morning of the 11th, perceiving two disabled ships under the islands of Saints, at G, chased them into Basse Terre, Guadaloupe; but, soon after, discovering two others far to windward, and disabled, at II, near the north end of Dominica, a general chase was ordered, only, three or sour of the French fleet being at this time visible, at I, from the Formidable's mast-head. But, upon the Agamemmon and others, at B, coming near the ships, at H, Count be Grassi, though far to windward, bore down, as at F, to protect his two disabled ships. Upon this the Agamemnon, and the other ships, advanced in the pursuit. Upon the signal to call in all cruises, they returned to their respective stations in the line.

Plate XVI. fig. 5. A, the British fleet, at two o'clock in the morning of the 12th, after having run to the southward from B, their position the evening before, having taken advantage of the wind, as at W, which generally hauls to the northward in the West Indies in the evening. At which time, (viz. two o'clock), having tacked to the northward, the French were discovered broad under their lee-bow, in some consusion, at F; and one of their ships was directly to leeward, at G, with her bow-sprit gone, and her fore-mast across her fore-castle, towed by a frigate, and the wind at E. S. E.; as at Z.

C, The Valiant and Monarch were ordered down from the rear to engage this disabled ship with her consort, which obliged Count de Grasse to edge down, as at II, to their protection.

D, The van of the British, about 4 or 5 o'clock, leading on the



flarboard tack; and the Admiral judging the COUNT DE GRASSE might now have got so far to leeward, by the last mentioned movement, that it would not be possible for him to avoid an action, the Valiant and Monarch, the ships in chase, were ordered into their stations.

I. The French, aware of their fituation, forming on a larboard tack; and the wind afterwards coming about from E. S. F. to nearly east, as at Y, they conceived hopes of regaining their usual fighting distance, more especially as their van, at this time, began to point to windward of the British.

Plate XVII. fig. 6. A, The British sleet.

F, The French fleet; their leading ships having gained the wind.

At half past seven in the morning, the Marlborough, the leading ship of the van of the British, having setched the sisth ship

LOED RODNEY'S NARRATIVE continued.

The 10th and 1 1th April were employed in endeavouring to bring the enemy to battle 1 and on the 11th, late in the afternoon, the enemy bore down to protect two of their flaips, who were in danger of being cut off. This brought them to the polition the Admiral wished. He instantly issued orders to sail during the night, according to the order of sailing; to put all lights out; to stand to the southward till two o'clock in the morning; and then the whole fleet to tack without lightal. This deceived the enemy, who had no conception that the British seet should be so near them at day-light, and instantly formed the line of lifetic upon the starboard tack; the enemy formed theirs upon the larboard tack; the enemy formed theirs upon the larboard tack; the enemy formed theirs upon the larboard tack in the nearness of the British seet taking the lecture prevented its being but in execution, and the British seet taking the lecture of the Admiral made the signal to engage and close.

of the line of the enemy, was fired upon; * when the fignals for close action, and to close the line, were thrown out.

Plate XVII. fig. 7. A, The van of the British ranging flowly and closely (but on opposite tacks) along the enemy's line, each ship giving and receiving a heavy fire.

F, The enemy's fleet having gained the wind, ranging in like manner in opposite directions.

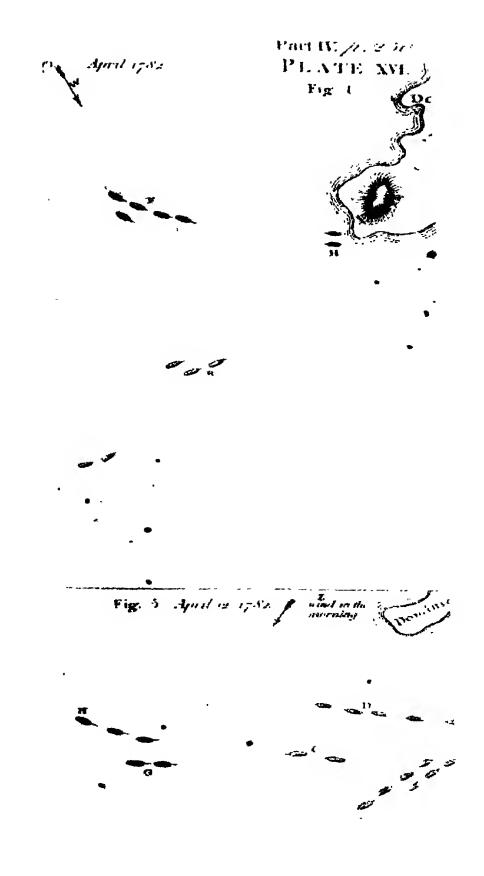
B, The Formidable, the Admiral's ship, not bearing away, but keeping the wind, &c. at the time when the two sleets might be supposed to be completely abreast of each other.

Plate XVII. fig. 8. A, The Formidable, the British Admital's ship, after having given her first fire to the enemy's fifth ship, and having passed the Ville de Paris, F, and her seconds almost in contact, kept her wind, and piercing the enemy's line between the fourth and fifth ship aftern of Count De Grasse's own ship, the Ville de Paris, was followed by the Namur and Duke, the two next ships aftern. † By which spirited, bold, and

^{*} N. B.— This ship, the Marlborough, having fetched the fifth ship, as mentioned; and after suffering a cannonade from thirty-one ships, the remaining part of the enemy's line, along the whole of which she had ruin, and close under their lee; in performing this and other service, from the ninth to this day the twelfth, had three men killed only, and sixteen wounded.

LORD RODNET'S NARRATIVE continued.

The British Admiral's ship, the Formidable, reached the enemy's fourth ship from their van, and begin a very close action within half musker-shot, and round with half musker-shot, and round within half musker-shot, and round w



and new mode of attack, the enemy's line was not only cut in twain, their van from their rear, but the headmost ships of their rear division, then coming up, were forced away to leeward, as at G.

B, The van of the British still ranging along the remaining part of the enemy's rear.

C, The rear of the British line following up after the Admiral.

H, The Glorieuse, the last ship of the van of the French, stretching past the rear of the British line. *

Plate

^{*} appeared at the third ship aftern of the enemy's Admiral, which gave an opportunity of breaking their line, and putting their rear in the atmost confusion;

when fix of their ships falling on board each other, in that condition the Ad-

miral and division attacked them, tore them to pieces, and the moment they had difengaged themselves, they bore away right before the wind.

^{*} Whether it was between the third and fourth flip that the line was cut, or between the fourth and fifth thip, as the text has it, is of little moment. we cannot well omit the following anecdote, as related to me by the late Admiral C. Inglie. He commanded the St Albans, one of the next flups aftern of the Formidable, in cutting the French hne. When he got along-fide of this hip H, sapposed to be the Glorieuse, the last of the vin division of the enemy, where it was cut afunder from the rear, he remarked that the did not return a fingle gun, nor was any body to be feen on board, but one man upon the poop; and fome accidental mulket-shot being fired by the marines, this poor fellow dropped, and was not more to be feen. After Captain Inglis had puffed on a-· head, directing his attention still to this ship H, as well as to the Canada, the Britist Thip which followed him next aftern, he observed that neither did the Glorieuse sepurn a gun to this ship : But the Canada, pouring in a whole broadfide into the Glorieuse, so dreadful was the appearance to Captain Inglis, who faw the dust, the pieces of timber, and smoke, which flew to a great dist ice from the fide opposite to that where she had received the blow, it seemed as if the ship (literally speaking) had been blown out of the water, and as if the whole in a mass had been driven to windward.

Plate XVII. fig. 9. A, B, C, The Formidable, Namur, and Duke, after having cut the line, kept up a powerful raking fire upon these ships of the rear division of the enemy, which they before had forced to leeward, and which are now going off before the wind, as at G.

- D, The rear of the British, under Sir S. Hoon, following up after the Admiral.
- F, The van of the British, under the command of Admiral DRAKE.
- G, The headmost ships of the rear division of the enemy, which were forced to leeward by the Formidable, &c. having got into a huddle, or group, were, for some time, exposed to a cannonade from three ships, the Formidable, the Namur, and the Duke; when the whole of this rear division of the French line, consisting of the rear and part of the centre, now under the conduct of M. BOUGAINVILLE, as soon as the British van had stretched past, put before the wind with all the fail that could be carried, escaping through the gap, evidently made in the British line, between the van and the attack made by the Formidable; which part of the enemy's sleet, for distinction's sake, shall be called the northern division of slight, which was not pursued.

I, The van of the enemy, firetched past the rear of the British line, preparing to break into two divisions.

H, The middle division which made to the west.

Plate XVIII. fig. 10. So foon as the van divition of the enemination of the British line, in Bearing away, it broke isto two divisions; one the called the middle difference west, as at H, and which may be called the middle distance.

rifion; the other, taking a S. S. W. course, consisting of about 12 or 13 ships, and where Count de Grasse was himself, making the southern division of slight, as at F.

A, The Formidable, with part of the centre, putting about in pursuit of the enemy's van.

B, The rear of the British line putting about for the putilit also. The signal for the rear to close the centre being soon after made, both these divisions, in pursuit of the southern division F, where Count de Grasse was himself, passed to windward of the middle division of the enemy H, without annoying it.

C. The British van.

F, The COUNT DE GRASSE, with the southern division, slying under every sail he could set, pursued by the rear and part of the centre of the British, and steering a S. S. W. course. It was from this division of the enemy from which all the captures were afterwards made.

H, The middle division of the enemy steering a more westerly course; and, as they were not pursued, they did not carry a press of fail; but, repairing the damage they had received, waited for, and the same evening, after it was dark, rejoined the ships of the lighthern division which had escaped the pursuit.

M. BOUGLINVILLE, with the rear division of the enemy,

ercividing fail, and fast advancing to the westward.

Plate XVIII. fig. 2. Upon the breaking of the van division of the enemy, the southern division, which had at first steered to the S. S. W. as at K, soon afterwards got with their heads to the mark ward, as at F, with the view of rejoining their other divisions, and forming a new line of battle to leeward, Count K k

DE GRASSE making repeated fignals for that purpose; but seeing, after every pains taken, these fignals without effect, and, at the same time, perceiving, if this northerly course was continued, that the line of the British pursuit would thereby be much shortened, he changed his direction again, and is now, about two o'clock in the afternoon, with his ships heads to the S. S. W. as at s.

A and B, The centre and rear of the British in pursuit of the southern division of the enemy.

C, The van of the British,

G, The rear divition of the enemy advancing still farther to the westward.

H, The middle division of the enemy, not being pursued, under an easy fail repaired their damage.

Plate XVIII. fig. 12. F, The fouthern division of the cremy with their heads again to the northward, at fix o'clock, at fun-set, having run through the dotted line of course II H, in which they were outsailed, and turned from their southerly direction, by the British ships in pursuit, as at A.

During this pursuit, five ships were taken from the enemy. The Glorieuse having lost her masts by the sire which she received in the morning, while ranging past to windward, struck to the sleet at 12 o'clock, upon their bearing away large for the pursuit. The Cæsar struck to the Centaur at sour o'clock.—The Hector, at half past sour, struck to the Canada and Alcide.—The Ardent, a little after sive, struck to the Belliqueux and Prince Villiam.—And the Ville de Paris, Count de Grasse, at six o'clock, about

about fun-set, struck to the Barsseur and Canada. At this time, COUNT DE GRASSE had got above five leagues to the westward and leeward of the sield of battle; and, night immediately coming on, Admiral RODNEY thought proper to give over surther pursuit *

By

* LORD RODNEY'S NARRATIVE continued.

Count DE Grasse, in the Ville de Paris, having behaved most bravely, and his flip being entirely crippled, and three British Admirats being very near him, firuck his flag about ten minutes after the fun had fet. Admiral Robert made * the figual for a night battle; but Jooking about him, and observing that his fleet were greatly dispersed; that two of his 90 gun ships were totally disabled; hi. 'own (the Formidable) greatly damaged; that his van and centre were much hurt; that none of the prisoners from the captured ships were taken out; that a very dark night, of twelve hours, was come on, he thought it most prudent to make fure of the victory, and not run the risk of a reverse of fortune, or the danger of a night battle, wherein his own fleet might receive more damage from one another than from the ships of the enemy; that, by running to leeward in the night, the enemy might deceive him by ordering some of their frigates to holft * the lights of their Admirals, and steer a course to lead him (Ropney) a different course from them; and as the night was extremely dark, being the first day of a new moon, they might have hauled their wind to the north, or to the fouth, withfour being scen; at the same time they most carefully had hid all lights whatever. The British fleet, by pursuing, might have found themselves far to leeward in the morning, without a possibility of their getting to windward, by the crippled condition they were in. These reasons, and his experience of a night battle, in-I duced the Admiral to fecure the victory, and not to hazard a reverse of fortune. He therefore made the figual for the British fleet to bring to, on the starboard tack, then to dark that one thip could not fee another. Day-light the next mornsing proved the wildom of that figual; for notwithitanding it was the duty of every thip to obey it, thirteen made fail, yet not one of them fired a flict, or came up with an enemy. This was a convincing proof of what might have happened had the whole fleet gone to legward, and the enemy have have their wind; not only the captured thips might have been re-taken, but fine of the British crippled been taken.

By faying that these ships of the enemy struck to particular ships of the British, is meant only, that those of our ships mentioned were engaging the prizes close at the instant of hauling down their colours, while the whole of the fleet was surrounding them at the time.

G, Montieur BOUGAINVILLE, with the rear division of the wenty, advanced now above ten leagues to the westward and to the leavard of the field of battle.

I, The middle division of the enemy, consisting of seven ships, having waited for, rejoined the ships of the southern division, which afterwards effected an escape *.

LINE

^{*} LORD RODNET'S NARRATIVE continued. .

On the merning of the '13th, frigates were dispatched to St Christophers and Lustatia, to see if any of the enemy's ships had sheltered themselves in those roads. Upon the report returned, that none were there, but that some ships had pailed these islands in a crippled state, Rear Admiral Hood and his division were seen to intercept such ships as might go to the south side of Porto Rico and St Demingo, while Admiral Rodell's took care of the prizes and his own shattered thips; and, so soon as he was embled to put his squadron in a condition to bear away, he got to St Domingo, where Admiral Hood soon joined him with two other enemy's ships of the line, which had been taken in the Mona Passage.

On the Bruish fleet arriving off Cape Tiberoon, the west end of St Domingo, Advantation was sent with a sleet of 25 sail of the line to blockade the island of St Domingo, while Admiral Romer himself bore away for Port Royal, Jamaica, with the prizes, and those of his ships which were most shattered, with the view of having the whole put in repair. The enemy's shattered ships, in the mean time, made their escape to the Havanna, some to America, and some even to France; and the British sleer, within a month, were completely a fitt d, stored, and manued. The van was gone out of harbour the centre going; and Admiral Romer himself, with the whole sleet, in him the comment of the comment of the comment.

LINE OF BATTLE of the BRITISH FLEET under the command of SIR G. B. RODNEY (the Royal Oak to lead on the florboard tack, and the Marlborough on the larboard tack), with the List of the Killed and Wounded in both the battles of the 9th and 12th of April. The damage which the ships in the van sustained in the battle of the 9th, made it necessary that this order of the line should be reversed, and SIR FRANCIS DRAKE'S division becoming the van, the Marlborough, as the headmost ship, led the sleet on the 12th of April.

Ship	Commanders	•		Jasps	rea tre	per on the	21h of Ap	r1/.
Royal Oak,	Capt, Burnet,				Guns	Men.	Killed	Wourd &
Altred.	Cape, Burnet,	•	-	-	74	600	8	
Montagne,		•	•	•	74	600	12	30
Yarmouth,	Bowen,	-	-	-	74	60	12	42
	Goodall,	•	-	-	64	500		31
€ Valiant,	Coodali,		-	•	74	650	14	33
Baifkur,	Shr S Hood, Bart.	_	_				10	28
•	Copt Knight,		_	-	90	767	20	27
Monarch,	Reynolds,		-	-	74	боо	16	=
Warrior,	bir Jain's Wal	lace,	•	-	74	602		33
B. Higueux,	Sitherland,	•	•	-	64	500	5	2 E
Centaur,	Invleield,	•	-	-	74	600	4	10
Magnificent,	Linzce, -	-	٠,		74	650	6	
Prince William,	Wilk nion,	-	-	-	64	500	•	11
Bedferd.	Commodore Atil ck	2			•	_	-	~
Delli, 10.	2 Capt Graves,	5	_	•	74	617		17
Ajax,	Charrington,	_	-	•	74	550 •	_	
Repaife,	Dumarcique,	•	-	-	64	500	9	10
Canada,	Hon W Corn	walls.	-	-	74 -	6 ₀ 0	3	11
St Albans,	- Inglis, -	_	•	-	64	. 500	12	23
Namur.	Fanhaw,	•	_		90	• -	-	6
•	Chir G B. Redney, C	Comma	inder in	Chuct.	,,	750	6	35
-	Sur Cha Douglas, fi	rft Car	tam.	J		•		
Formidable,	Capt Symons,		-	}	90	750	15	39
	J ord Cranflou	n	_	•				37
Duke,	- Gardner,	···	• -		90	***		
Agamemnon,	Caldwell,	_	• _	_	64	750	13	61
Reloiution,	Lord Robert M	****		_	•	500	15	22
Prothes.	Buckner,	TWITTEL:	3 , -	_	74	600	5	34
Hercules.	Savage,	•	-	-	64	500	5	25
	Javage,	-	•	_	74	600	7	19
America,	8 Thumfon,	•	•	•	04	500	ĭ	ĸ
Rafiell,	Saumarcz,	-	•	•	74	600	10	29
Prudent,	Barkisy,	-	-	-	64	500	-	-
Iame,	Barber,	-	-	-	74	550	3	12
Anion,	Blair, -	-	-	-	64	500	3	13
Torbay,	Gidoin,	***	~	•	74	600	IQ	25
Prince George,	Williams,		-	•	90	750	9	24
Princella,	SFrancis & Drake, El	4 2		_	70	577 •		
2 1111111111111111111111111111111111111	2Capt Knatchbull,	5			•		3	22
Conqueror,	Baltour,	•	•	•	74	600	7	23
Nuntuch,	ruseutt,	•	_ •	•	64	500	3	3
Alcide,	C. Thomfon,	-			74	600	-	-
Arrogant,	Cornib.	-	-	•	74	~ 60 0	-	-
Marloorough,	Penhy,	•	-	•	74	600	3	16
37				•	2704	21,36r	230	759
Dadus al	Prident not with the	Acet in	the acti	ba.	64	,	-3-	137
	A THE PARTY OF MICH.		,	_	2640			
36 •								
		. F	RIG	A T.E	S.			

FRIGATES. Not Present in the Action Profest in the Astron . Andromache. Lizard Pegafus Champion, to repeat. Flora, to repeat fignals La Nymph. Sa amander. . Zebra Germain Convert Alecto. Alert Fortune. Blaft Priton. Endymun 10 Barydere, to repeat figuris 10 Santa Monica Sybul. Alarm.

LIST

LIST OF THE FRENCH FLEET.

	. Slips.						Glane.
	La Ville de Paris.		_	_	•	-	110
	L'Auguste, -	_	_	,		_	80
	Le Duc de Bourgogne,	_	_			•	80
	Le Languedoc,	- t		_			80
	Le Neptune	_	•			• .	80
	Le Zelo,	_	_	_	- #	•	74
	La Gloriente	_	-	_	-	* _	74
	Lie Citoyen	_		-		•	74
	Le Souvernin,	_	_ ′	-	-4		74
	Le Magnanime,	_	_	-		_	74
	Le Ozelar,	_~	2.1		_	-	74
	Le rictor.	_	_	-		-	74
	Le Phyton,	_	_		_	-	74
	Le Hercules -	_	_	_		•	74
•	Le Scipion,	_		_	_	-	74.
	CL. Contonne	_	_	_	_	-	80
Arrived with the Breft convoy,		-		_	_		74
WILLIAM MITH Elle Diere coursel?	Le Dauphin Royal,	4	-	_	_		74
*	Le Magnifique	7		3 _ ,	-	-	74
	Le Bourgogae, Le Bien Aimé,	-	_	_	_	-	74
		_	_	S/ =			74
	Le Sceptre, — Le Northamberland,	_	_	1 4	_	-	74
	Le Conquerent	•	_	_	-	٠.	74
	La Marielloife,	-	Ξ,	_	_	~	74
	Le Palmien,	_	_	_		•	74
	L'Ardent, -	_	_	_		•	64
	L'Useille, -	_	_	-	_	•	64
	Le Caron,	_	_	_	" L		64
		_	_	•	-	•	64
	Le fafon, Le bier, armé en flute,	_	_	•	_	-	64
	Le Minotaur, ditto,	•	_	_		288 <u> </u>	74
		_	_			-	74
Joined at St Kitts,	The Brave,	_		+ -		a ž	100
	Le St Esprit,	_	_	-	_		80
Out of repair,		_	_ +*			_	74
Out of refrent	Le Defin,	_	_ ^			_	64
	(Le Reffechi, -	_	*	<u> </u>	_	4 ,	50
	Le Sagittaire.	_		, —	•	•	30
	L'Experiment,	-			-	*	24
	Thereen Frigntes,		مهاء				
	Seven armed Brigs,						
	Ope Catter.						

Total, 36 of the line, two 10 gun thips, 23 frigates, 7 struck being a fire figure and a setter.

PLATE XV odnes & bettle 12 " April 1784.

DBSCRVATIONS ON THE BATTLES OF THE 97H AND 12TH APRIL 1782.

In the course of these Actions, there will be found a complete Il-

- 1. The difficulty which an enemy's fleet will find in making an escape to windward.
- 2. That the crippling of tome of his ships will be a necessary consequence of the efforts made to essential this chape.
- of these efforts, as it was the cause of bringing on the actions of both the 9th and 12th, and had nearly produced an action on the 10th,—will also be a cause of bringing on an action on all future occasions of the like nature, or in like circumstances.

The attack made by the British in the action of the 9th, may be considered as an example of the simple attack, and shows how little may be expected from any rencounter between two fleets on the same tack, when an attempt shall be made from the lee-ward.

The judicious movement made by the British fleet, from a northerly course to a southerly one, on the night between the 1,1th and 12th, as it shows the advantage that may be made by a change of wirid, at the same time shows the necessity of attention to such periodical changes. For it was by this means only that the

the British sleet got within reach of the enemy on the morning of the 12th April.

The little loss sustained by sleets, while ranging past an enemy's line, particularly exemplified in the case of the leading ship, the Marlborough, in this battle, as well as in others, viz. the starce battles formerly mentioned,—the 27th July 1778, the 15th and 19th May 1780,—sufficiently and incontrovertibly should establish how little and be effected by the rencounter of two adverse sleet's passing on opposite tacks, without having something more important in view than the simply effecting the said passage.

From the facility with which the Formidable, the Admiral's ship, kept her wind, and forced her passage through the line of the encmy, and the necessary consequence that the headmost ships of the rear division must thereby be forced and driven to leeward, should with certainty establish, that breaking or cutting an enemy's line, by an attack from the leeward, is not only a practicable manœuvre, but a manœuvre attendéd with little additional danger, or risk of shipping; and that, with the same facility, and with equal probability of fuccess, it might have been attempted, in former rencounters, as already mentioned *. And although Admiral RODNEY, in either of his former rencounters of the 15th or 19th of May, had not then been convinced of the importance of this manœuvre—ftill, having been the first to put it in execution, as on this occasion of the 12th April, he has acquired a name renowned over the whole world, as well as among his countrymen,

^{*} KEPPLL's engagement of the 27th July 1778, and Rodney's two engagements of the 15th and 19th May 1780.

countrymen, who must ever remember this essential essort of service with the utmost gratitude.

The glorious consequences, from having cut and divided the enemy's line on this occasion, as they may be admitted to be illustrations of the foregoing demonstrations, may also be admitted as a proof of what ought to be expected in future on every fimilar occasion.

The hurry and precipitation with which the rear divition of the enemy made their escape through the gap in the British line, as it shewed their apprehensions, should also be a proof of the danger of their situation.

The effort to escape, made by the van division of the enemy, as it confirms the general position, their desire of evading a conflict, confirms also the idea of that superiority of British seamen, which seems, indeed, to have been incordestible from the beginning of the whole affair to the end thereof.

The manner by which the van of the British, was rendered almost without effect, shews that the rear division of the enemy, and not the van, ought to have been the object of pursuit *.

The proximity of the rear of the British to the rear division of the enemy, should sufficiently point out the object of pursuit they also should have chosen.*

Therefore the British line, van and rear, not having been prepared to take advantage of their necessary mutual proximity to the rear division of the enemy was a loss. *

Again, the rear division of the British, by having been obliged to put about, ship, in pursuit of the van of the enemy, already

L1: got

got some number of miles distant, is a full confirmation of the hypothesis laid down, That the pursuit of a rear division, cut off from the van of an enemy's fleet passing on contrary tacks, ought in general to be preferred.

Lastly, The facility with which the rear of the British came up with the slying van of the enemy, after consideration had to all the foregoing circumstances, without doubt shews, that neither was the any inferiority of failing in the British ships on this occasion.

BATTLES

BATTLES BETWEEN THE ENGLISH AND FRENCH SQUADRONS IN THE EAST INDIES, 1782.

EXTRACT OF A LETTER FROM SIR EDWARD HUGHES BART. TO MR STEPHENS, DATED ON BOARD THE SUPERBE, AT SEA, OFF THE COAST OF COROMANDEL. \$4TH APRIL 1782.

I sailed on the 31st of January from Trincomalé for Madras Road, in order to get a supply of provisions and stores, of both which the ships were then in want.

On the 8th of February I anchored in Madras Road; and the fame day received advice from LORD MACARTNEY, the governor of that place, that a French squadron, consisting of thirty fail of thips and veffels, was at anchor about twenty leagues to the northward of that port. In the afternoon of the 9th, Captain Aims, in his Majesty's ship Monmouth, with the Hero, Isis, and the armed transport Manilla, joined me in the road. I continued to use all possible diligence in getting the necessary stores and provisions on board the several ships, until the 15th of February, when the enemy's iquadron, confifting of 12 fail of line of battle thips, 6 frigates, 8 large transports, and 6 captured vessels, came in fight to the northward, standing for Madras Road; and, about noon, the fame day, anchored about four miles without the road. In the mean time, I placed his Majesty's ships in the most advantageous manner to defend themselves, and the other ships in the road, with fprings on their cables, that they might bring their

broadfides to bear more effectually on the enemy, flould they attempt an attack.

At four in the afternoon, the enemy weighed and stood to the southward, when I immediately made the signal to weigh, and stood after them, having received on board a detachment of 300 officers and men of his Majesty's 98th regiment, who were difficultived to the ships of the squadron that were worst manned. I stood with the squadron, as per margin **, to the southward all that night under an easy sail; and in the morning, at day-light, found the enemy's ships had separated in the night; their 12 line of battle ships and a frigate bearing east of me, distant about four leagues, and 16 sail of their frigates and transports bearing southwest, distant about three leagues, and steering a direct course for Pondicherry; on which I instantly made the signal for a general chase to the south-west, in order, if possible, to come up with and take their transports, well knowing the enemy's line of battle ships would follow to protect them all in their power.

In the course of the chase, our copper-bottomed ships came up with, and captured six sail of ships and vessels, sive of which were English, taken by the enemy, when to the northward of Madras, out of which I ordered the Frenchmen to be taken, and the vessels to proceed, with their own crews, to Negapatam; the sixth was the Lauriston, a transport, having on board many French officers, and 300 men of the regiment of Lausanne, and laden with guns, shot, powder, and other military stores. This ship, so valuable to us, and of so much consequence to the enemy, was taken by Captain Lumley of his Majesty's ship Iss.

So.

^{*} Superbe, Exeter, Monarca, Hero, Worcester, Bursord, Monmouth, Eagle, 1sis, Seahorse, Combustion.

So foon as the enemy's squadron discovered my intention to chase their transports, they put before the wind, and made all the sail they could after me; and, by three o'clock in the afternoon, sour of their best sailing line of battle ships were got within two or three miles of our sternmost ships; and the ships in chase were very much spread, by the enemy's ships they were chaling steering different courses, some to the south-cast, others to the south, and several to the south-west. I therefore judged it necessary to make the signal for the chasing ships to join me, which they all did about seven o'clock in the evening; and I continued standing to the south-cast, under an easy sail, all that night, the enemy's squadron in sight, and making many signals.

At day-light, in the morning of the 17th, the body of the enemy's fquadron bore north by east of ours, distant about three leagues, the weather very hazy, with light winds and frequent squalls, of short duration, from the north north-east, the enemy crowding all the sail they could towards our squadron.

At fix in the morning, I made the fignal for our squadron to form the line of battle ahead; at 25 minutes past eight, our line ahead being formed with great difficulty; from the want of wind, and frequent intervals of calms, I made the signal for the leading ship to make the same sail as the Admiral, and made sail, formed in the line ahead, intending to weather the enemy, that I might engage them closely. At ten, the enemy's squadron having the advantage of the squalls from the north north-east, (which always reached them first, and in consequence continued longest with them), neared us very fast; and I made the signal

for our line to alter the course two points to leeward, the enemy then steering down on the rear of our line, in an irregular double line abreast. At half past noon, I made the signal for our squadron to form the line of battle abreast, in order to draw the rear of our line closer to the centre, and prevent the enemy from breaking in on it, and attacking it when separated.

At three in the afternoon, the enemy still pushing on to our rear in a double line abreast, I again altered my course in the line, in order to draw our rear ships still closer to the centre; and at forty minutes after three, finding it impossible to avoid the enemy's attack, under all the disadvantages of little or no wind to work our ships, and of being to leeward of them, I made signal for our squadron to form at once into the line of battle ahead. At four, the Exeter (which was the sternmost ship in our rear, when sormed in line of battle ahead, on the larboard tack), not being quite closes to her second ahead, three of the enemy's ships in their first line bore right down upon her, whilst four more of their second line, headed by the Hero, in which ship M. Sussein had his slag, hauled along the outside of the first line, towards our centre.

At five minutes past sour, the enemy's three ships began their sire upon the Exeter, which was returned by her and her second ahead. At ten minutes past sour, I made the signal for battle; and at twelve minutes past, the action became general from our rear to our centre; the commanding ship of the enemy, with three others of their second line, leading down to our centre, yet never at any time advancing sarther than opposite to the Superbe, our centre

thip, with little or no wind, and fome heavy rain during the engagement.

Under these circumstances, the enemy brought eight of their best ships to the attack of sive of ours. As the van of our line, consisting of the Monmouth, Eagle, Burford, and Worcester, could not be brought into action without tacking on the enemy; and although the signal for that purpose was at the mast-head ready for hoisting, there was neither wind sufficient to enable them to tack, nor for the sive ships of our centre and rear, then engaged with the enemy, hard pressed, and much disabled in their masts, yards, sails, and rigging, to follow them, without an almost certainty of separating our van from our rear.

At fix in the afternoon, a fquall of wind from the fouth-east took our ships, and paid them round ahead on the enemy to the north-eastward, when the engagement was renewed by our five ships, with great spirit and alacrity, from our starboard guns; and at twenty-five minutes past fix, just before dark, the enemy's ships engaged with ours, having visibly suffered severely, the whole of them hauled their wind, and stood to the north-east.

At this time the Superbe had lost her main-yard, shot into two pieces in the slings, had sive feet water in her hold, which continued for some time to gain on all her pumps, until several of the largest shot-holes under water were plugged up, and neither brace nor bow-line lest entire; and the Exeter, reduced almost to the slate of a wreck, had made a signal of distress. The other three ships in our rear, the Monarca, Isis, and Hero, had suffered less, as the enemy's sire appeared plainly to be directed principally against the Superbe and Exeter.

DESCRIPTION OF THE BATTLE BETWEEN THE FRENCH AND BRITISH SQUADRONS ON THE COAST OF COROMANDEL, 17TH FEBRUARY 1782, TAKEN FROM THE FOREGOING LETTER.

Sire Edward Hughes having left Trincomalé the 31st of January 1782, came to an anchor in the road of Madras the 8th of February; and, the same day, he received advice, that a French squadron was at anchor about twenty leagues to the northward of that place; and, all diligence being used in getting the necessary stores aboard the several ships, the enemy's squadron, on the 15th, came in sight from the northward; and, at noon, anchored about sour miles without the soad. In the mean time, the men of war were placed in the soft advantageous posture of desence, with springs on their cables, that they might bring their broadsides to bear more effectually on the enemy, should they attempt to make an attack.

Plate XIX. fig. 1. The British squadron at anchor in the road of Madras, the 15th of February, at A, with springs on their cables, prepared to receive any attack.

F, The French squadron come to an anchor likewise, the morning of that day, and about sour miles distant, without the said road; but not finding it convenient to attack Sir EDWARD HUGHES, as he was then situated, they got up their anchors that same afternoon, and stood away to the southward. The British squadron

fquadron foon after weighed, and stood after them, carrying an easy sail all the night; and, in the morning of the 16th, at day-light, the enemy's ships having separated during the night-time, the positions of the different fleets lay as follows:

- B, The British squadron standing to the southward.
- G, The enemy's line of Lattle thips, supposed to be 12 in number, with one frigate, bearing east from the British squadron, and distant about four leagues.
- , H, The enemy's transports and frigates, 16 fail, bearing S. W., distant about four leagues, and making for Pondicherry.

The British squadron being thus situated between the enemy's men of war and their transports, signal for a general chase to the south-west was instantly made, in the hope of taking some of their transports, not doubting that their line of bottle ships would follow and endeavour to protect them. In the course of the pursuit, the copper-bottomed ships came up with and captured six of these transports; but by this means the British squadron was much separated.

In the mean time, the enemy's squadron, so soon as they perceived the danger their sleet of transports were in, having put before the wind, some of their best-sailing coppered ships had got within three or sour miles of the sternmost of the British, about three o'clock in the afternoon; upon, which, a signal was made by Sir Edward Hugues for the chasing ships to join the squadron, which they all did about seven-o'clock in the evening, when, afterwards, he continued, all the following night,

standing to the south-east, under an easy fail, as at C, while the enemy still kept in fight, as at I, making many signals.

Plate XIX. fig. 2. A, The British squadron, on the 17th, at 10 o'clock forenoon, extended in a line of battle ahead, on the larboard tack; at this time the ships in the rear of the line were too far aftern, particularly the Exeter, B, the sternmost, occasioned by the light irregular breezes of wind.

F, The enemy having the wind more conftant, steering down on the rear of our line in an irregular double line abreast, and nearing us fast.

lig. 3. The thip B, the Exeter, in the rear of the British, from the irregularity of the wind, continuing still to be far fequated; at half any hour past noon, a signal was made for the squadron to form, him of battle abreast, as at A, to give an opportunity for each thip in bearing away, particularly those in the war, to close with the centre, as at the points CCC, which, if accomplished, would prevent F, the enemy, from taking the rear at a disadvantage.

free enemy, F, still pushing on for the rear. At three in the afternoon, the course of each ship in the line was attempted to be still farther changed, and with the intention to draw the ships in the rear still closer to the centre, as from D to £.

Plate XX. fig. 4. At 45 minutes past three o'clock, finding it impessible to avoid the enemy's attack, a fignal was made for the British squadrons to form at once into the line of battle ahead, as at A.

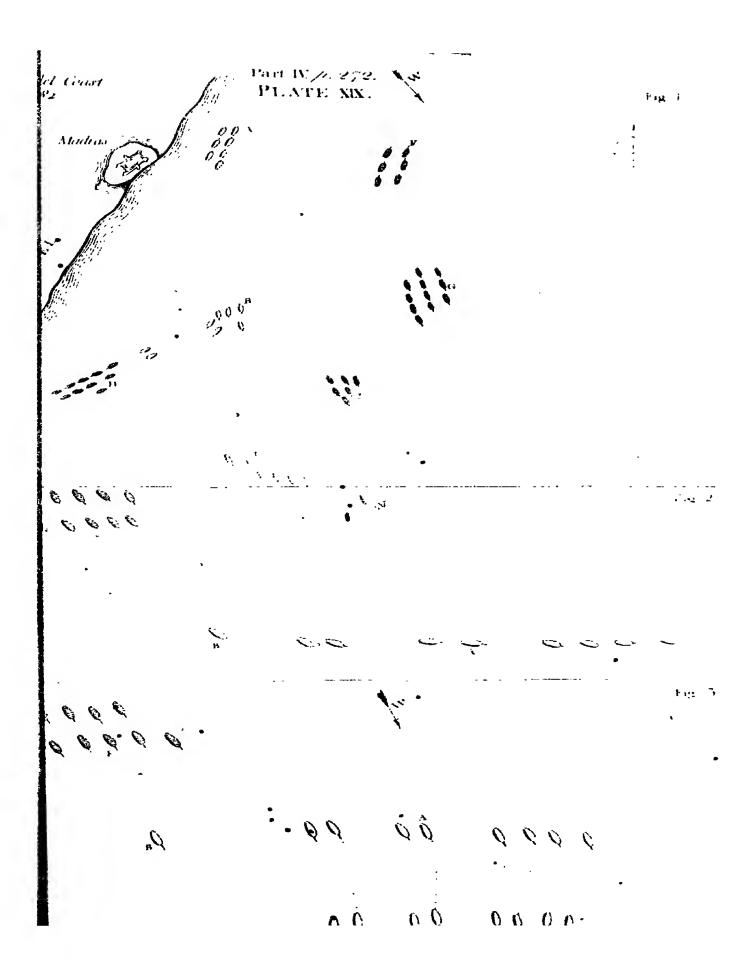
- B, The Exeter, the florimost ship, not having been able to chee with the next ship ahead,—
- G, Three of the enemy's ships of their first line bore right down to attack her, while sour ships of their second line, headed by the Fero F, in which ship Monsieur Suffring had his slag, hauled along the outside of these three ships which were siring on the Exerci, intending to attack our centre, the Superbe with her seconds, at A.
- Plate XX. big. 5. G, The enemy's three thips began to fire or the Exeter at five minutes past four.
 - B, The Exeter and her feeled returning the fire.
- F, The Admiral's ship, Monsieur Suffrein, with three others of the enemy's second line, having led down on our centre A, the engagement commenced from our rear to centre about 12 minutes after four.

In this manner Monfieur SUFFREIN had it in his power to bring eight of his best ships to make an attack on sive of the British only;—the wind at N. N. E.

Fig. 6. At fix o'clock in the afternoon, the wind having changed, a fquall from the fouth-east, as at Z, took our ships, and paid them head round on the enemy to the north-east, viz. from the sirst position A, to the position B; that is, from a larboard tack to a starboard tack, when again the engagement was immediately begun with fresh spirits from the starboard guns of our five thips.

Fig. 7. At twenty-five minutes past six, just before it was dark, the enemy's ships which had been engaged having suffered severely, the whole of their squadron hauled their wind, and stood off to the north-east, as at F; and the British squadron being on a contrary tack, standing to the north-west, as at A, the two sleets were soon separated.

LIST



40

LIST of the BRITISH SQUADRON, with the Killed and Wounded, in the Battle of the 17th February 1782.

•		•		Killed.	Wound.
Superbe,	_	•	-	X K.	25
Exeter,	-	-	-	10	45
Monarca,	-	_	-	2	5
Hero,	-	-	~	9	17
Worcester,		-	-	Ó	Ò
Burtord,	-		-	0	O
Monmouth	١,		-	O	0
Eagle,	-	-	•	0	0
Ifis,	-	•	•	T	3.
Seahorfe	_	-	-	0	Õ¹
Combustion	n,	-	-	0	0
					
-				32	95

Officers Killed and Wounded.

Superbe, Captain Stevens wounded (fince dead).

Lieutenants Hughes and Newcombe wounded.

Exeter, Captain Reynolds killed.
Lieutenant Charles Jones wounded.

I.IST of the FRENCH SQUADRON now on the Coromandel Coaft, and of a the Lund Forces embarked in it, and the Transports at the Mauritius, the 7th December last, and now landed to join Hyder Ali.

	Guns.		Men.
L'Hero, -	74	SM. D. Sufficin, ? Chef D'Efiadre, }	625
L'Orient, -	74	Cap. Du Pallaire,	625
L'Annibal, -	74	Tromelin, -	625
Le Brilliant, -	64	St Felix	516
L'Ajax, -	64	Bouvet, -	516
Le Sercie, -	64	Sultier	516
Le Sphynx, -	64	Duchaleau, -	516
L'Artelian, -	64	L'Alandrois, -	516
Le Vengeur. •	64	Forbin, -	516
			•
Le klamand, -	50	De Queberville,	430
Eng. Hannibal, -	50		
FRIGATES.		•	
La Purvoyeule,	ૈંડ	Cap. Du Galle,	400
	-	Perier de Salvert.	400
La Fine, -	40		
La Bellona,	36	Bovard, 1st Qügecr	
La Subtile, -	22	De Beaulieu, -	140
La Silphide, -	18		200
La Dilicentes -	8		80

FLUTES AND TRANSPORTS.

Lauriston, Bon Ami, Maurepas Brison, Deux A-mis, Fills Unique, St Anne, Duc de l'uscany.

LAND FORCES.

Regiment	D'Austrasie,	-	-	655
	D'ile de France,	-	~	800
The Legion	de Laufanne,	-	-	455
Volontaire	de Bourbon,	~	-	139
	ent d'Artilleric,	•	-	200
Cattres of	the Islands,	•	-	X157
Supoys,		•	•	41
				-
				3457

OBSERVATIONS ON THE BATTLE OFF THE COAST OF CORO-MANDEL, 17TH FEBRUARY 1782.

As the British navy has hitherto afforded so sew examples of an inclination to evade or avoid battle, our object has hitherto been confined to treat of the mode of attack only, not that of desence. On this occasion, however, it must be admitted, that M. Surficely, the commander of the squadron of the enemy, has given us something new, not only by obliging Sir Edward Hughes to act on the desensive, but by having, in his masterly seamanship, attempted a change, and put in practice a new mode of attack from the windward. He is also the first of an enemy, for this century at least, who will be allowed the honour to have made an attack upon a British squadron.

In the course of this action, there will be found an illustration of the following particulars:

- 1. That the fwift-failing veffels of the fquadron in purfuit were coming fast up with, and would have cut off, the flow-failing veffels of the fquadron endeavouring to make off.
- 2. That to prevent the loss of these slow-skiling vessels, and to protect them from the enemy, Sir EDWARD HUGHES was induced to abide an engagement, which otherwise he was inclined to have avoided.
- 3. That M. SUFFREIN, by carrying down his squadron in two divisions; sending three of his headmost ships to force an attack upon two ships in the rear of the British, at B, sig. 5. Plate XX.; bringing

bringing up the remainder of his fquadron in support of these three ships; hauling past them to windward, so as to attack, and consine himself to the attack of the British centre, the Superbe and her seconds, has put in practice a new mode; and it is also an illustration of that mode which we have somerly demonstrated and endeavoured to recommend.

Though the full effect of this admirable disposition of attack made by M. Suffrein, was in the end prevented, by the British squadron being brought round on the starboard tack, and thereby enabled to get all its ships into action by the change the wind made; yet nothing but a consciousness of inferiority somehow in his seamen can excuse M. Suffrein, or account for the retreat he made, or why he drew off his superior number of ships, after once having had the merit of bringing up his squadron to so masterly and advantageous an attack, where in one place he had three ships opposed to one, and in another place had brought five ships against three; and after having had the additional advantage, when the British ships might have been much burt by his raking sire, while they were forced, with their heads round, by the change the wind made in the heat of action.

SIR EDWARD HUGHES'S ENGAGEMENT IN THE EAST INDIES WITH M. SUFFREIN, THE 12TH APRIL 1782.

EXTRACT OF A LETTER FROM SIR EDWARD HUGHES TO MR STEPHENS, DATED ON BOARD THE SUPLREE, IN TRINCOMALE BAY, 10TH MAY 1782.

In my last I mentioned the junction of his Majesty's ships Sultan and Magnanime with the squadron on the 30th of March. Both ships were then very sickly, and much reduced by the scurvy; but as I had one board the squadron a reinforcement of troops for this garrison, and a quantity of military stores, I judged it most for the public service, especially as I knew the enemy's squadron was to the southward, not to return to Madras to land the sick and scorbutic of these two ships, but to proceed directly for Trincomalé, and there to land the reinforcement and military stores, as well as the sick of the Sultan and Magnanime, without either seeking or shunning the enemy.

In pursuance of this resolution, I stood with the squadron to the southward; and, on the 6th of April, sell in with a French ship, last from Mauritius, having on board dispatches from France for their Commanders in Chief by sea and land: This ship was chased on shore, and burnt steer Tranquebar, the officers and men escaping with the dispatches.

On the 8th, about noon, I came in fight of the enemy's fquadron,

dron; consisting of 18 sail, in the N. E. quarter; and continued my course for this place, on the 9th, 10th, and 11th, the enemy still in sight; on the 11th, having made the coast of Ceylon, about the leagues to windward of Trincomalé, I bore away for that place. On the 12th, at day-light, the position of the enemy's squadron being altered by my bearing away, so as to give them the wind of ours, I discovered them crowding all the sail they could set after us; and their copper-bottomed ships coming fast up with the ships in our rear, I therefore determined to engage them.

At nine in the forenoon, I made the fignal for the ships in our squadron to form the line of battle ahead on the starboard tack, at two cables length distance from each other. The enemy then bearing N. by E. distant about six miles, and the wind at N. by E., they continued manœuvring their ships, and changing their positions in their line, till sisteen minutes past noon, when they bore away to engage us; sive sail of their van stretching along to engage the ships of our van, and the other seven sail steering directly on our centre ships, the Superbe, the Monmouth her second ahead, and the Monarca her second aftern.

At half past one, the engagement began in the van of both squadrons, three minutes after I made the signal for battle. The French Admiral in the Hero, and his second aftern, the L'Orient, bore down on the Superbe within pistol-shot. The Hero continued her position, giving and receiving a severe fire for nine minutes; and then stood on, greatly damaged, to attack the Monmouth, at that time engaged with another of the enemy's ships, making room for the ships in his rear to come up to the attack

of our centre, where the engagement was hottest. At three, the Monmouth had her mizen-mast shot away, and, in a few miunites after, her main-mast, and bore out of the line to legicard. At forty minutes past three, the wind unexpectedly continuing far northerly, without any fea-breeze, and being careful not to entangle our ships with the shore, I made the signal for the squadron to wear, and haul their wind in a line of battle, ahead, on the larboard tack, flill engaging the enemy. At forty minutes past five, being in fifteen fathom water, and apprehentive lest the Monmouth might, in her disabled state, drift too near the shore, I made the figual for the fquadron to prepare to anchor. forty minutes past six, the enemy's squadron drew off in great diforder to the eastward, and the engagement ceased; their Admiral having shifted his flag from the Hero to the French Hanibal, on account of the Hero's difabled flate; and foon after I anchored with the squadron, the Superbe close to the Monmouth, in order to repair our damages, which, on board the Superbe and Monmouth, were very great in the hulls, masts, fails, and rigging; and almost all the ships had suffered considerably in their masts, fails, and rigging.

Much about this time, the French frigate La Fine, being ordered, I suppose, to tow and assist their disabled ship the Hero, fell on board his Majesty's ship the Isis, and had actually struck his colours to her; but taking advantage of the darkness of the wight, and the state the Isis was in, just come out of action, in which she had a number of men killed and wounded, and otherwise ill manned, the frigate got clear of the Isis and sscaped.

An account of the officers and men killed and wounded, on board the feveral ships of the squadron, is herewith enclosed.

On the morning of the 13th, at day-light, I found the encmy's squadron had anchored about five miles without us, in much disorder and apparent distress, but they had lost no lower masts.

Both squadrons were busily employed in repairing damages, drawing into order for desence, the enemy seeming to apprehend an attack from us; and I myself uncertain if they would not reflew the engagement in order to get hold of the Monmouth.

In these situations, both squadrons continued at anchor till the 19th, in the morning, when the enemy's got under sail with the land wind, and stood out to sea close hauled; and at noon tacked with the sea breeze, and stood in for the body of our squadron, as if with intent to attack; but after coming within two miles of us, finding us prepared to receive them, they again tacked, and stood to the eastward by the wind; and I have not since been able to learn certainly where they are gone. Having resitted the Monmouth in the best manner our situation would admit, with jury, main, and mizen-mass, I sailed with his Majesty's squadron for this place on the 22d, and anchored here on the evening of the same day, immediately landing the reinforcement and military stores destined for the garrison, and the sick and wounded.

In this fituation of the fquadron and its men, I thought it best for his Majesty's service, to remain at anchor here, and to set about the repairs of the hulls, masts, and rigging of the several

Kn 2 ship,

thips, while the fick enjoy every benefit of fresh meat, vegetables, and wine, on shore for their recovery.

I have the fatisfaction to inform their Lordships, that I shall be able to re-mast the Monmouth by the end of this month, from the spare stores on board of the several ships; and that the damage they sustained in the last engagement will be every way made good about that time.

ABSTRACT OF THE OFFICERS AND MEN KILLED AND WOUNDED ON BOARD SEVERAL SHIPS OF THE BRITISH SQUADRON.

	*			Killed.	Wounded.	Total.
Superbe, -	•	ч 🚗	•	59	9 б	15 5
Exeter, -	V ***	~	•	4	40	44
Magnanime,	-		-	P-17-06	7	7
Monmouth,		-	•	45	102	147
Monarca,	- *-		-	7	28	3 <i>5</i>
Worcester,	-	•		8	26	34
Burford, -	1 -	**	•	6	- 36	42
Eagle, -	• •	•	•	-	22	22
Hero,	• •	5 ₀₀ A	•	2	13	., 15
Sultan, -	-	• • •	-	-	*9	. g
Ifis,	IN	•	* 	6	51	57
	*			***	******	
	* h		, -	137	430 +	567

Among the killed were the following Officers:

Superbe, two Lieutenants, Mafter.

Monmouth, one Lieutenant of Marines.

Worcefter, one Lieutenant.

Burford, one Lieutenant of Marines, mames not mentioned.

DESCRIPTION OF THE BATTLE OFF CEYLON, THE 12TH OF APRIL 1782.

THE FRENCH SQUADRON, CONSISTING OF TWELVE SHIPS AND TRIGATES, COM-MANDED BY M. SUFFREIN; THE BRITISH SQUADRON, CONSISTING OF ELEVEN SHIPS AND FRIGATES, COMMANDED BY SIR EDWARD HUGHES.

SIR EDWARD HUGHES, in his letter of the 10th May, acquaints us, that while he was on his way down the coast of Coromandel, from the northward to Trincomalé Bay, he came in fight of the enemy's squadron, consisting of 18 sail, in the north-east quarter, about noon, on the 8th of April: That he continued his course; but the enemy following, kept in fight of him during the 9th, 10th, and 11th; and having made the coast of the island of Ceylon on the 11th, about 15 leagues off Trincomalé, he bore away for that place.

On the morning of the 12th of April, at day-light, perceiving that the enemy had got the wind of his squadron, by reason of his bearing away during the night; and perceiving also that, by crowding every sail, their copper-bottomed ships were coming fast up with the ships in his rear, he therefore came to the resolution to wait for and engage him.

At nine in the forenoon, a fignal was made for the British squadron to form the line of battle ahead, on the starboard tack,

it two cables length distance from each other; the enemy being directly to windward, distant about six miles, and the wind N. by E.

The enemy continued manœuvring their ships, and changing their positions in the line, till sisteen minutes past noon, when they bore away to engage us; sive sail of their van stretching along to engage the ships of our van, while the other seven sail steered directly on the ships of our centre.

Plate XXI. fig. 1. A, The British squadron on the starboard rack, formed in line of battle ahead, at two cables asunder.

F, The enemy right to windward, bearing N. by E. distant fix miles, by crowding sail fast coming on.

Fig. 2. B, The van of the British, consisting of four ships.

- A, The centre, confifting of three ships.
- C, The rear, confisting of four ships.
- G, The van of the enemy, confifting of five ships, stretching along to engage the four ships in the van of the British.'
- F, The French Admiral, with the other seven ships of their line, steering directly on to the course of the British, consisting of the Superbe and her two seconds, viz. the Monmouth shead, and the Monarca aftern.
- Fig. 3. F, The French Admiral in the Hero, with the L'Orient his fecond aftern, bearing to attack the Superbe. It is faid the Hero came within pittol-shot.

HH, The other five hips of the enemy supporting the Hero in the attack of the centre.

A, The British Admiral, in the Superbe, receiving the fire of the Hero, within pillol-shot, as it is said.

B, The four ships in the van of the British, sustaining the attack from the five sail of the enemy.

C, The four ships in the rear of the British which seem not to have been much engaged.

G, The five ships in the van of the enemy attacking the van.

Plate XXII. Fig. 4. F, SUFFREIN in the Hero, after having been greatly damaged by the fire of the British Admiral, A, stood on to the attack of the Monmouth, E, who was engaged with another of the seven ships; making room at the same time for others of the ships in his rear to get up in succession to the attack of the centre, and where it is said the engagement was the hottest.

C, The Monmouth, about three o'clock falling out of the line, after having loft her mizen-mast and her main-mast.

B, The four ships in the van, sustaining the attack from the five ships of the enemy.

Fig. 5. At forty minutes pall five, the wind unexpectedly continuing far northerly, without any prospect of a sea breeze, and careful therefore not to entangle our ships with the shore of Ceylon, Sir Edward Hughes made signal for the squadron to wear and haul their wind in a line of battle ahead on the larboard tack, the engagement continuing all the while.

At forty minutes past five, being in fifteen fathoms water, and apprehensive lest the Monmouth, in the disabled state she was might drift too near the shore, the signal was made for the squadron to prepare to come to an anchor.

At forty minutes past six, the enemy's squadron drawing off to the castward in great disorder, the engagement ceased. M. Sur-FREIN, on account of the disabled state of the Hero, shifting his slag from that ship to the French Hannibal.

A, The ships of the British squadron in the act of wearing, and while exposed to a raking size from the enemy, after having quitted their starboard position, B B B.

F, the enemy's fquadron.

W, The wind at north.

Fig. 6. The British ships having wore, and withdrawn to lee-ward, in manner like the system of defence already observed to have often been practised by the enemy, are now with their heads to the east at A, when the action was renewed from the larboard guns, and continued above an hour; but the apprehension of the Monmouth's getting ashore still continuing, the signal was made for the squadron to come to an anchor.

F, The French Admiral not choosing to renew an attack; which, according to the above mentioned fystem, might have been attended at this time with much loss, drew off his ships in great disorder to the eastward, after having quitted their starboard position, G G; but whether this was effected by wearing or tacking the squadron, is not mentioned.

REMARKABLE PARTICULARS OF THE BATTLE OFF CEYLON, 12TH APRIL 1782.

THAT it was on the same day in which LORD RODNEY fought and beat Count de Grasse, in the battle between Dominica and Guadaloupe, in the West Indies, the opposite quarter of the globe.

That the protection of his flow-failing veffels, who were in danger of being overtaken by the fwift-failing veffels of an enemy who had been in purfuit of his fquadron for four 'days, was the reason which induced Sir EDWARD HUGHES to abide an engagement, which otherwise (in this case as well, as in his former battle) he was inclined to have avoided; and it sufficiently illustrates the difficulty and darger, not to say impracticability, of a fleet making off to leeward, as has been before demonstrated.

M. SÖFFREIN not having had the hoped for fuccess in the attack upon the rear of the British squadron the 17th February, his attempt upon the van, equally well concerted on this occasion, evidently proves him to be an officer of genius and great enterprise.

of his fleet to the attack of the British, and afterwards to bring up the rear division to support it, even within pistol that of the British centre; and if the ships in the British rear could not in time get up to annoy a crippled enemy, this the more particularly

Philtrates the propriety and practicability of bringing up and directing the whole, or any part of a force, against a finaller part of the force of an enemy; and that the effect ought to have important consequences, in battles at sea, as well as in battles at land.

But at the fame time that it proves the above, it also proves this, that though the British squadron was at first inclined to avoid battle, yet those ships which were attacked, being once engaged, showed no inclination to quit the field to a superior force, or to give room to the fresh ships aftern, even though they could have got up to their assistance.

The apprehension of the danger of a lee-thore, though it may made Sir Edward for wearing with his squadron while under the attack, and in the face of the enemy, as in sig. 5.; and though he renewed the action on the contrary tack, as in sig. 6.; yet the enemy may say, (as many British commanders on the like occasion have fold of the enemy), that Sir Foward was beat, as his sleet had been completely driven out of their first line.

To which it will be answered: If SIR EDW'ND, from the imperaling danger of a be-thore ", was forced to this manœuvre of we ming, he did thereby renew his line of battle in ftrong position to leaward, and in the felf-same manner which the French fleets have done on every former occasion, whenever they have been attacked from the windward; and, as it was in M. SUFFREIN's option, and he did not think it sit to come down and renew the action, it may be admitted that this may be called a drawn battle. But in another view, if it is considered that the British squadron came to an anchor

^{*} The illand of Ceylon.

anchor on the spot, that they kept possession of the field of battle, and that N. Herrrick fairly drew off his ships; by the laws of war, the victory should be adjudged to Sir Linuxin Humans, the British Admiral. Again, to return to M. Suibral, a's first battle, that of the 17th February: By the British iquadron putting about their ships heads to the enemy, and thereby forcing him to go off when he might have continued the engagement; the victory, therefore, on this occasion, also ought to be determined for the British squadron.

In confidering the power of cannon that, and bringing to our recollection the little effect fonterimes of a cannonade, after having been kept up for above three hours, we cannot help remarking, on this occation, the cannonade, of nine minutes duration only, which to much diffibled the Hero, M. Suurrent's thip. Her opporent, the Superbe, the British Admiral, during the engagement, had 50 men killed and 96 wounded; and the Monmouth, her fecond, 15 men killed and 100 wounded.

FINIS.

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